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Copyright (c) 1993 - 2000 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

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#### ALIGNMENTS

# RESULT 1 AAA75823 AAA75823 standard; DNA; 6486 BP

AAA75823;

Nucleotide sequence of the human Tcl-1b gene.

22-JAN-2001 (first entry)

Tcl-1; Tcl-1b; T cell malignancy; chromosome 14 abnormality; lymphoma; T-cell leukaemia; immunodeflciency syndrome; ataxia-teleangiectasia; ss.

Homo sapiens.

WO200055169-A1

21-SEP-2000

15-MAR-2000; 2000WO-US06612.

15-MAR-1999; 99US-0124714.

Croce CM, Pekarsky Y;

(UYJE-) UNIV JEFFERSON THOMAS.

WPI; 2000-611514/58.

Novel nucleic acid of Tcl-1 gene family, Tcl-1b, expressed in low levels in normal bone marrow and peripheral lymphocytes, but activated in T-cell leukaemia and lymphoma, used to identify chromosome 14 abnormalities

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Best Local :
721 cctggaggcaccaggtgggccaacaggatgaacatgacattggtgtcagattactgatct
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The present sequence encodes a human Tc1-1b protein. The Tc1-1b gene is implicated in the development of T cell malignancies. Fragments of Tc1-1b cDNA sequences are used for detecting a target sequence indicating a chromosome 14 abnormality, such as a (14:14)(q11:q32) translocation or a (14)(q11:q32) inversion. Tc1-1b antisense sequences and antibodies are useful for treating a disease state such as T-cell leukaemia or lymphoma associated with a chromosome 14 abnormality. The Tc1-1b gene and its gene product are useful for treating disease states associated with the Tc1-1b locus on chromosome protein including T-prolymphocytic leukaemias, acute and chronic leukaemias associated with the immunodeficiency syndrome ataxia-teleanglectasia (AT).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nucleotide sequence of the human Tcl-1b cDNA.
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                                                                                                                                                                                                                                                                                 Novel nucleic acid of Tcl-1 gene family, Tc1-1b, expressed in low levels in normal bone marrow and peripheral lymphocytes, but activated in T-ceil leukaemia and lymphoma, used to identify chromosome 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-MAR-2000; 2000WO-US06612.
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                                            RBP-7; retinoblastoma binding protein-7; abnormal cell proliferation; diagnosis; therapy; cell differentiation; thyroid hyperplasia; psoria benign prostate hypertrophy; cancer; sarcoma; neoplasm; leukaemia;
                                                                                                                 Retinoblastoma binding protein-7 genomic DNA sequence.
                                                                                                                                                       16-MAY-2000 (first entry)
                                                                                                                                                                                                                        AAZ86967 standard; DNA; 162450 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            904 ccctgtgggtatcagttctgctgacactttggcccgaaatagatccagtgctgagcaagc
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                                 lymphoma;
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 Mismatches

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Best Local
                                                  80436 GGCAGAGGTTGCGGTGAGCCAAGATTACACCATTGCACTCCAGCCTGTGCAACAAGAGCG 80377
                                                                                                                                                                                                                80496 GGGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGCA 80437
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1688 cgtaaacaattcactgcctgtttgtttgttttttgagaaagtcttgctct-gttgcggct 1746
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            probes derived from the RBP-7 incleotide sequence (e.g. AAR87035-Z87099) are useful for DNA amplification and detection methods. RBP-7 biallelic related to alteration in the regulation or in the coding regions of the RBP-7 gene and for prognosis/diagnosis of an eventual treatment with therapeutic agents, especially agents acting on pathologies involving abnormal cell proliferation and/or differentiation, these include thyroid hyperplasia, psoriasis, benign prostate hypertrophy, cancers, including breast cancer, asarcomas and other neoplasms, bladder cancer, colon cancer, lung cancer, prostate cancer, various leukaemias, and lymphomas. RBP-7 antibodies are useful as diagnostic agents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 162450 BP; 45465 A; 30661 C; 32637 G; 53673 T; 14 other:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; Page 118-163; 223pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          y Match 6.1%; Score 397.6; DB 21; Length 162450;
Local Similarity 58.2%; Pred. No. 7.8e-78;
hes 1036; Conservative 0; Mismatches 689; Indels 55; Gaps
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10-DEC-1998;
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80316 AGTATATACCAAACAGAAACTATTTTTATTGAGACAGAATGTCACCCTATCATTCAGGCT 80257

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                                                         79256 CCAAGGTGGGCGGATCACTTGAGGCTAGGAGTTCAAGACCAGCCTGGCCAACATGGCGAA 79197
                                                                                                                                                                      79311 C----AGATAATTGGCTGGGCGCGGTGGCTCACGCCTGTAATCCCCAGCACTTTGGGAGG 79257
                                                                                                                                                                                                                                                                                79431 AGAGGGAAAATGTCTATGGCCCTGTTACCTAAAATGGGCTGCAGAAAATATGGAACTGGG 79372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       79491 AGCAAAAACCAGAGGCTCCTGAAAGCTGTATTAAAGGCACATAGAAAACTCCGTAGGCCT 79432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 79551 TTTCAAGGGACTAAAAAGACCTGGGGGTAGGGTAGAATTTGTCCCCATCTTAGACCTAAAG 79492
2754 ccgaggcgggcggatcaca--aggtcaggagatcgagaccatcctggctaacacggtgaa 2811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              79611 AGAAACATAAGCAATATCTCTGTCCCTATCTCAATGTCCAGGAAAGTAGGGGGCATGTTTG 79552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            79671 GAATCACACATAGTAATTTTCAAATAAGAGACCACAGTCTCTCCCTAGTACATAACAAGA 79612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   79727 TATCTGTTAGTCATTTCACTTGCTACAGGAAAGAAATTTCTAAAGAGTTGTTTA----A 79672
                                                                                                                                                                                                                                                                                                                                    2635 tggaggtggatagtgccgacggttccacatgtcaatgccacttaatgccaccaaactgtac 2694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             79780 AAAA-----TAAAAGAGAGAGAGAGAGTTTATATCACACAGTGTGATTTCTATTTTAAG 79728
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                                                                                                                                                                                                    2695 tottaaaaacagttgacogggcacggtggctcacgcotg-aatcocagcactttggggga 2753
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           79960 TTTCTATGTAATCTGAAATATTATTTTGGTAATACTGTATCACTATAGAGTATTACTAAA 79901
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                                                                                                                                                                                                                                                                                                                                                                                                                                              2575 ggatgggaagttaatgttagtaacaggtacggagtctcagtttgggaagataaaaagttc 2634
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2395 gtaaacaacacaaccatgaagtattcacccttaaaagtcagacacacggatgaaacttg 2454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2455 gagccattatactaaatgaaatatgccagtcacggaaggacagattctcttgtatgaggt 2514
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2275 tacccacaagactctgaagccggaacttaagcatgtattcatacatccatgttcacagca 2334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2216 atgaggatttctcaaaaaaaagaattacggcataatccagcaatgccacttctggatata 2274
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2156 agcctgaaaaagtgttaatggagggcactgtaaaatggtgcagccactatggaaaacagg 2215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2101 atacacta----aataaagcatgcaaaaattgtggagcaaatattttaagtttttcaaa 2155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2041 aagttcaaataggttatttcaaaaaatgttggtagagaacatggaaaggcttttctgtac 2100
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17-JUL-2000;
03-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                79078 GTAAGCCAAGATCATGCCGCTGTACTCCAGTCTGGGCGACAGAGCAAGACTCTGTCTCAA 79019
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tomato; monkey; dog; sea urchin; expressed sequence tag; ES diagnostics; forensic test; gene mapping; genetic disorder; biodiversity; gene therapy; nutrition; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2932 gtgagctgagatccagccactgcactccagcctgggcgacagagcaagactccgtctcaa 2991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2872 cccagctactcggggggctgaggcaggagaatggcttgaacctgggaggcggagcttgca 2931
                                                proteins from a variety of organisms, including human, dog, cat, horse, cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess biodiversity and for nutritional purposes. The present sequence is a cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human EST-derived coding sequence SEQ ID NO: 102.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAH98245 standard; cDNA; 697 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-JAN-2001; 2001WO-US02687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-AUG-2001.
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                                                                                                                                                  The present invention provides the protein and coding sequences of novel
                                                                                                                                                                                     Claim 1; Page 246; 1275pp; English.
                                                                                                                                                                                                                       Isolated polypeptide for treatment of diseases, diagnostics, raising antibodies and research use - \,
                                                                                                                                                                                                                                                                                                                                                                           (HYSE-) HYSEQ INC.
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                                                                                                                                                                                                                                                                                                                                            Liu C,
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2000US-0631451.
2000US-0663870.
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                                                                                                                                                                                                                                                                                                                       ou P, Qian XB, Wang Z, Chen R,
Zhang J, Werhman T;
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Sequence 697 BP; 135 A; 204 C; 181 G; 175 T; 2 other;

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AAT11658
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Best Local Similarity 83.7%;
Matches 493; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5766 cactcagtttctctcgttttccttagttatcagtcctgtcctgtcccactcaggtctgta 5825
                                                                                                                                                                                                                                                pigment epithelium-derived factor; PBDF; neuronal cells; neurons; glial cells; gliastatic; gliosis; central nervous system; CNS; neurodegenerative disease; injury; neuronotrophic; brain cells; parkinson's disease; photoreceptor cells; retina; inhibition;
                                                                                                                                                                                                                                                                                                                                                                                                               AAT11658;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6178 ggagcetcagtgageccatctgeaeagtggggageatggagggatgggt 6226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6058 gtttaagagatggcattagagggagcccagtctggatgtggacttggatgccctgtgggt 6117
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                 07-JUN-1994;
                                 30-DEC-1994;
                                                                    06-JUN-1995;
                                                                                                       14-DEC-1995
                                                                                                                                           WO9533480-A1
                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                   proliferation;
                                                                                                                                                                                                                                                                                                                                         PEDF full length sequence and flanking sequences.
                                                                                                                                                                                                                                                                                                                                                                              16-JAN-1997 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAT11658 standard; DNA; 22481 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             570 at-agntctgctgacactgtggcctgaaatanaaaaagtgctgagcaagcagtgtatgct 628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        330 tcccctgctggctgcaagccatgggttctttttctcctctctgcccctcatgctgacctt 389
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     510 gtttaagagagggccgcagagggaactgggtcctgatgtggacttggatgccctgggggg
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                                 94US-0367841
                                                                                                                                                                                                                                   immunoassay; antibody; ageing; degenerative disease;
                                                                      95WO-US07201
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13333 tagaga-tggggcctcaccatgttgctcaggttggtctgaaactcctgagctcaagtgat 13391
                                                                                       13273 aaatagctgggaccacaggcacgtgccaccacgcccagctaattttttgggtatttttag 13332
                                                                                                                                                                                        13213
                                                                                                                                                                                                                                                                     13153 ctttcttttttagagacagagtctcactccatcacccatgctggagtacagtggtgcga 13212
                                                                                                                                                                                                                                                                                                                                                          13096 gtctcaaaaaaaaaaaaaaaaaaaaa---gaaagaaagaaaactgagttctttttttaa 13152
                                                                                                                                                                                                                                                                                                                                                                                                                                                  13036 ggttgcagtgagctgagctcgcaccactgcactccagcctgggcgacagagtgagactcc 1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12976 ctgtagtcccagctactcgggaggctgaggcaggagaatggcgtgaacccgggaggtgga 13035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12856 ctttgggaggtggaggtgggtcgatcacgaggtcaggagatcgagaccatcctggctaac 12915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12796 caggagattaagactgcagtgaggggccgggcgcggtggctcacgcctgtaatcccagca 12855
                                      1882 gagagacaaaagtttaatcatgtgggccaggctggttttgaactcctgacctcaagtgat 1941
                                                                                                                                                                                                         1764 tgttggctcactgcaacctccacctcccaggctcaagtgattctcatgcctcagcctccc 1823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1407 ctttgggaggccgagatgggcttatcacgagatcaggagatcgagaccatcctagccaac 1466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1347 ccggatatttaaaatgccatttagggctgggcgcggtggctcacgcctgtaatcccagca 1406
                                                                                                                                  1707
                                                                                                                                                                                                                                                                                                                                                                                                      1647 gtcccaaaaaaaaaaaaaaaaaaaaaaaaaaaaaagccgtttaggtcttcgtaaacaattcactgcct 1706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1527 ctgtagtcccagctactcgggaggctgaggcaggagaatggcgtgaacccgggaggcgaa 1586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1467 atggggaaaccccgtctctactaaaaatacaaaaattagccgggcgtggtggtggcggacgc 1526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and neural retina and photoreceptor cells. The gliastatic activity of PEDF can be applied to inhibiting glial cell proliferation in certain tumours. Antibodies directed against PEDF can be used for inhibiting PEDF activity or in an immunoassay for determining levels of PEDF in fluid, cellular or tissue samples e.g for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gliastatic activity, making it useful in cases where neurons die quickly and glia tend to prolliferate (gliosis), e.g. in CNS cell culture, in neurodegenerative diseases and in CNS injury. The neuronotrophic effect of PBDF is especially useful for enhancing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 22481 BP; 5280 A; 5708 C; 6136 G; 5347 T; 10 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             transplantation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pigment epithelium-derived factor (PEDF) has both neuronotrophic and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 100-122; 151pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Use of pigment epithellum derived factor - for enhancing neuronal cell survival and inhibiting glial cell proliferation, useful, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          determining ageing and/or other degenerative diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Becerra SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (USSH ) US DEPT HEALTH & HUMAN SERVICES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CNS cell culture or to treat neuro-degenerative diseases
                                                                                                                                                                                                                                                                                                   gtttgtttgtttttgagaaagtcttgctctgttgc---ggctggagtgcactggtgtga 1763
                                                                                                                                                                                 tcttggctcactgcaatcttggcctcctgagttcaaccaattctcatgcctcagcctccc 13272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gcttgtagtgagccgagatcgcaccactgcactccagcctgggtgacagagtgagactcc 1646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         490;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    neuronal cell cultures intended for use in tion. These include cultures of human foetal brain cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chader GJ,
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76.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 357.6;
Pred. No. 2.
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The present invention describes primer sets for synthesising 5602 CC full-length cDNAs defined in the specification. Where a primer set CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary CC to the complementary strand of a polynucleotide which comprises one of CC the 5602 nucleotide sequences defined in the specification, where the CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination CC of an oligonucleotide comprises at sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a CC polynucleotide which comprises a 3'-end sequence, where the CC polynucleotide comprises a 3'-end sequence, where the CC polynucleotide comprises a 3'-end sequence, where the CC polynucleotide which comprises a 1 sucleotides and the combination of the 5'-end sequence/3'-end sequence is selected from those defined in gene therapy. The primers are useful for synthesising polynucleotides, comparatively of the proteins encoded by CC the full-length cDNAs. The primers are also useful for the CC detection and/or diagnosis of the abnormality of the proteins encoded by CC the full-length cDNAs. The primers also and AAH13620 to AAH13620 to AAH13620 to AAH13620 to AAH13620 to AAH13620 to CC AABS5839 represent human amino acid sequences, AABS2446 to
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27-AUG-1999;
11-JAN-2000;
02-MAY-2000;
                                                      AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632 represent oligonucleotides, all of which are used in the exemplification
                                        of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1942 ctgcccaccttggcctcccaaagtgctgggattacagg 1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 8; SEQ ID 18377; 2537pp + CD ROM; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       full-length cDNAs .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and/or diagnosis of the abnormality of the proteins encoded by the
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2000JP-0118776.
2000JP-0183767.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1548 CAAAAAAAATTAGCCAGGCGTGGTGGGGGATGCCTGTAGTCCCAGCTACTTGGGAGGTT 1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1496 c---aaaaaattagccgggcqtgqtggtggccgcctgtagtcccagctactcgggaggct 1552
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1668 GGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGATGTGGGCAGATCACA 1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1728 TATACCTTGATCAGAGAGTGGAATTGTCTGTGTATACACTTAAAATGTATGGGTTTGCCG 1669
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                                                                                                                                                                                                                                                                                                                                                   1957 tcccaaagtgctgggattaca--ggtgagccacctcgcccagcc 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                    1188 TACAGGCG-CCTGCCACCCACACCCAGCTAATTTGTGTATTTTTAGTAGAGAC-AGGGTTT 1131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1070 TCCCAAGGTGCTGGGATTACAGGGGTGAGCCACCGGCACCCGGCC 1027
                                                                                                                                         patabase; polymorphism; SNP; human; genetic marker; disease; infection;
                                                                                                                                                                       Human AKAP10 gene SEQ ID NO: 36.
                                                                                                                                                                                                    12-JUN-2001 (first entry)
                                                                                                                                                                                                                                                              AAH02340 standard; DNA; 161425 BP.
              13-OCT-2000; 2000WO-US28413
                                                                      WO200127857-A2
                                                                                                   Homo sapiens.
                                                                                                                            drug response; ds.
                                           19-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ggcgcggtggctcacgcctgtaatcccagcactttgggaggccgagatgggcttatcacg 1435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAACCTCCGCTTCCCGGGTTCAAGAGATTCTTCTGCCTCAGCTTCCCCGAGTAGCTGGGAT 1189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            caacctccacctcccaggctcaagtgattctcatgcctcagcctcccgagtagcttggat 1836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          529; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          75.1%; Pred. No. 5.1e-69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches 152;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          markers. Data obtained for the database can be used to sort the samples by parameters such as age, sex and ethnicity. This is useful in linking markers with diseases, susceptibility to infection and drug responses. The present sequence was used in an assay to demonstrate the uses of the database of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-OCT-1999;
10-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4239 GGCCGGGTGCGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGA 4180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1371 ggctgggcgcggtggctcacgcctgtaatcccagcactttgggaggccgagatgggctta 1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 161425 BP; 47858 A; 33576 C; 34682 G; 45309 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Producing a database for identifying polymorphic genetic markers, comprises obtaining data relating to members of a healthy population
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4179 TCACGAGGTCAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCCATCTCTACTAA 4120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1431 tcacgagatcaggagatcgagaccatcctagccaacatggggaaaccccgtctctactaa 1490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention provides a database of human samples obtained fi
healthy individuals which can be used to identify polymorphic genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 3; Page 241-288; 304pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and entering the information into a database -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-273865/28.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4119 AAATGCAAAAAAGTAGCCGGGCGTGGTGGCGGCGCCTATAGTCCCAGCTACTCGGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1491 aaatacaaaaaattagccgggcgtggtggcgggacgcctgtagtcccagctactcgggagg 1550
                                                                                                                                                                                                                                                                                                                         1671
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                                                                                                                                         3819 TCCTGGGCTCAAGCAGTCCTCCTACTTCAGCTTCCAGAGTAGCTGGGATTACAAGCATCT 3760
                                                                                                                                                                                                               3879 GTCTCTCTCTCTCACTCAGGCTGTGGCGCAGCATGACCACGGCTCACTGCAGTCTTGATC 3820
                                                                                                                                                                                                                                             1728 gtcttgctctgttgcggctggagtgcactggtgtgatgttggctcactgcaccctccacc 1787
                                                                                                                                                                                                                                                                                    3700 TCAGGCTGGTCTTGAGCTCCTGGCCTCAAGCAATCCACCTGCCTTGGCCTCCCAAAGTGC 3641
                   1908 ccaggctggttttgaactcctgacctcaagtgatctgcccaccttggcctcccaaagtgc 1967
                                                                      3759 GCCACCATGCCTGGTTAATTTTTTTTTTTTTTTTGTAGAGAC-AGAGTTTTGCTATGTTGC 3701
                                                                                            1848 thtthttacagthaaththththtthtgthaththcaggagagacaaaagththaatcatghggg 1907
                                                                                                                                                                          1788 tcccaggctcaagtgattctcatgcctcagcctcccgagtagcttggattacaggcgatt 1847
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                                                                                                                                                                                                                                                                                                                       Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; 2000US-0217251.
; 2000US-0217658.
; 2000US-0663968.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0159176.
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75.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 349.4; DB 22; Length Pred. No. 3.8e-67; 0; Mismatches 151; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 22; Length 161425;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        He L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6; Gaps
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AAH02339/c
ID AAH023
                                                                                                                                                                                                                                                    Matches 476;
                                                                                                                                                                                                                                                                                  Query Match
1551 ctgaggcaggagaatggcgtgaacccgggaggcgaagcttgtagtgagccgagatcgcac 1610
                                                                   1491 aaatacaaaaaattagccgggcgtggtggcggacgcctgtagtcccagctactcgggagg 1550
                                                                                                            4179 TCACGAGGTCAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCCATCTCTACTAA 4120
                                                                                                                                                                          4239 GGCCGGGTGCGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGA 4180
                                                                                                                                                                                             1371 ggctgggcgcggttggctcacgcctgtaatcccagcactttgggaggccgagatgggctta 1430
                                                                                                                               1431 tcacgagatcaggagatcgagaccatcctagccaacatggggaaaccccggtctctactaa 1490
                                                                                                                                                                                                                                                                                                                                                       The present invention provides a database of human samples obtained from healthy individuals which can be used to identify polymorphic genetic markers. Data obtained for the database can be used to sort the samples by parameters such as age, sex and ethnicity. This is useful in linking markers with diseases, susceptibility to infection and drug responses. The present sequence was used in an assay to demonstrate the uses of the database of the invention.
                                                                                                                                                                                                                                                                                                                    Sequence 162025 BP; 48006 A; 33691 C; 34805 G; 45523 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 3; Page 196-241; 304pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Producing a database for identifying polymorphic genetic markers, comprises obtaining data relating to members of a healthy population
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-OCT-1999; 99US-0159176.
10-JUL-2000; 2000US-0217251.
10-JUL-2000; 2000US-0217658.
19-SEP-2000; 2000US-0663968.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-OCT-2000; 2000WO-US28413
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Database; polymorphism; SNP; human; genetic marker; disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human AKAP10 gene SEQ ID NO: 35.
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                                                  AAATGCAAAAAAGTAGCCGGGCGTGGTGGCGGGCGCCTATAGTCCCAGCTACTCGGGAGG
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                                                                                                                                                                                                                                                             Similarity
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75.28;
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19-MAY-2000;
07-JUN-2000;
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30-JUN-2000;
                         14-AUG-2000;
                                                             14-JUL-2000;
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                                                                                                                                                                                                                                                                                                                            WO200155324-A2
                                                                                                                                                                                                                                                                                                                                                                             Human; breast antigen; ovarian antigen; cancer; metastasis; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                       Human breast or ovarian antigen genomic DNA SEQ ID NO: 256.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1968 tgggattacag--gtgagccacctcgcccagcc 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                   19-OCT-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAI62606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAI62606 standard; DNA; 32174 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4059 CTGAGGCAGAGAATGGCGTGAACCCGGGAGGCAGAGCTTGCAGTGAGCCAAGATCACGC 4000
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                                                                                               2000US-0214886.
2000US-0215135.
2000US-0216647.
2000US-0216880.
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2000US-0205515.
2000US-0209467.
2000US-0225213
          2000US-0224518.
2000US-0224519.
                                   2000US-0220963
2000US-0220964
                                                          2000US-0217496.
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14-AUG-2000; 14-AUG-2000;

2000US-0225447. 2000US-0225757. 2000US-0225758.

2000US-0225268

2000US-0226279. 2000US-0226681.

2000US-0225759.

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                                   Query Match
Best Local Similarity
Matches 981; Conserv
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08-NOV-2000;
08-NOV-2000;
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08-NOV-2000;
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05-DEC-2000;
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05-DEC-2000;
06-DEC-2000;
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08-NOV-2000;
1366 tttagggctgggctggctcacgcctgtaatccca-gcactttgggaggccgagatg 1424
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17-NOV-2000;
                                                                                                                      at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                       The present invention
                                                                                                                                                                                                                                                Disclosure; SEQ ID NO: 256; 520pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                              WPI; 2001-488785/53.
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                                                                                                 Sequence 32174 BP; 8001 A; 6837 C; 7064 G; 8747 T; 1525 other;
                                                                                                                                     specification,
                                                                                                                                                                                                number of ovarian and AAI62467-AAI62572 and
                                                                                                                                                                                                                                                                               New isolated nucleic acids and polypeptides, useful for diagnosing, treating and/or preventing human diseases and disorders -
                                                                                                                                                                                                                                                                                                                                     Rosen CA,
                                                                                                                                                                                                                                                                                                                                                             (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                        their metastases. The present sequence is a genomic sequence of the
                                                                                                                                                                                    diagnosis, prevention
                                                                                                                                                                                                                                                                        treating and/or preventing human diseases and disorders
                                                                                                                                                             invention.
                                                                                                                                    The sequence data for this patent did not form part of the printed fication, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                     Barash SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0249211
2000US-0249213
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2000US-0251030.
2000US-0251988.
2000US-0256719.
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2000US-0254097.
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                                               5.3%;
                                                                                                                                                                                      provides the protein and coding sequences of a breast antigens. These are shown in AAM42240-AAM42345. The sequences can be used in the and treatment of breast and ovarian cancers, and
                                                                                                                                                                                                                                                                                                                                      Ruben SM;
                                    Score 343; DB 22;
Pred. No. 5.6e-66;
0; Mismatches 655
                                       655;
                                                            Length 32174;
                                       Indels 75;
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2000US-0233064 2000US-0232401 2000US-0233063 2000US-0232400 2000US-0232399 2000US-0232397 2000US-0232398

14-SEP-2000
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2000US-0230438.

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2000US-0228924. 2000US-0226868

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2000US-0229509

2000US-0229513.

2000US-0232080. 2000US-0232081. 2000US-0231968.

2000US-0231414. 2000US-0231413. 2000US-0231244 2000US-0231243

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15655 ggccgggtgtgggtgctcatgcctgtaatctcagcactttgggaggctgaagcaggtgga 15714
                                                                                                     15595 tatgctattggtaagtcttctattagtagttaagtttttggagagtcaaaagttatatgt 15654
                                                                                                                                                                                                              15535 atggtaagaaatacatatataacacaaatgacatacaaaatatatgttaatcaacttgtt 15594
                                                                                                                                                                                                                                                                                                                    15475 aacatattttttcttgcttatgattctcttaataacattttcttttctatagtttacttt 15534
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                                                                                                                                                        2343 catactagccaaaaggtggtggcagcccccgtgtccattgatagatgaatgggtaaacaa 2402
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                                                                                                                                                                                                                                                                                                                                                                       2226 ctcaaaaaagaattacggcataatccagcaatgccacttctggatatatacc---caca 2282
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Human; nootropic; neuroprotective; cytostatic; dermatological; virucide; immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary; antiparkinsonian; antisickling; antianaemic; antiarthritic; cancer; antifheumatic; hepatotropic; corebroprotective; antiinflammatory; antiallergic; antidiabetic; antiulcer; anticonvulsant; antifungal; antiparasitic; cardiabetic; immune disorder; cardiovascular disorder; antiparasitic; cardiabetic; immune disorder; cardiovascular disorder;
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                                                                                                                                                                                                                                     Human genomic DNA SEQ ID NO 232.
                                                                                                                                                                                                                                                                                                22-OCT-2001 (first entry)
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31-JAN-2000; 2000US-0179065.
04-FEB-2000; 2000US-0180628.
19-MAY-2000; 2000US-0205515.
07-JUL-2000; 2000US-0216880.
                                                   17-JAN-2001; 2001WO-US01346
                                                                                             WO200155449-A1
                                                                                                                 Homo sapiens.
                                                                                                                                          neurological disease; infection; nephrotropic; gene therapy; vaccine;
2000US-0205515
2000US-0216880
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25-SEP-2000;
29-SEP-2000;
13-OCT-2000;
14637 ggtggatcacttgagatccggagtttgagaccatactggccaacatggtgaaaccccatc 14696
                                                                   14577 tgtactggctggtgcagtggctcacgcctgtaaaccaaggcactttgggaggctgaggtg 14636
                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to novel genes (AAI62752-AAI62961) and proteins (AAM42347-AAM42415) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohm's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel plasma membrane associated proteins useful for diagnosing, treating, preventing and/or prognosing disorders related to the proteins, including cancer, immune response and neuronal disorders
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06-SEP-2000;
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14-AUG-2000;
                 1425 ggcttatcac--gagatcaggagatcgagaccatcctagccaacatggggaaaccccgtc 1482
                                                                                        1366 tttagggctgggcgggtggctcacgcctgtaatccca-gcactttgggaaggccgagatg 1424
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                                                                                                                                                                                                                                                                                                                                                                       disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 2; SEQ ID NO 232; 532pp + Sequence Listing; English.
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                                                                                                                                                                                                                             Sequence 32174 BP; 8001 A; 6837 C; 7064 G; 8747 T; 1525 other;
                                                                                                                                                                                                                                                               from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                               Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly
                                                                                                                                                                                                                                                                                                                   and parasitic infections.
                                                                                                                                                                                                                                                                                                                                   (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
                                                                                                                                        Match 5.3%;
Local Similarity 57.3%;
nes 981; Conservative
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2000US-0251990.
2000US-0254097.
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2000US-0225447.
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                                                                                                                                                       Score 343; DB 22; Length 32174; Pred. No. 5.6e-66;
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                                                             15715 tcacgaggtcaggaaatcgagaccatcctggctaacatggtgaaattccgtctctactaa 15774
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                                                                                                                                                                                    15655 ggccgggtgtgggtggctcatgcctgtaatctcagcactttgggaggctgaagcaggtgga 15714
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2062 aaaaatgttg-----gtagagaacatggaaaggcttttctgtacataca 2105
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2523 tggtctcattcataaagtggaatggtagctgccaggggctg-----gagggagt 2571
                                                                                                                       2463 atactaaatgaaatatgccagtcacggaaggacagattctcttgtatgaggtactcagag 2522
                                                                                                                                                                                                                                                 2403 cacaaaccatgaagtattcacccttaaaagtcagacacacggatgaaacttggagccatt 2462
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Example 8; Page 99-104; 226pp; Japanese.

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                                                                                                                                                                                                              31-AUG-1999; 99JP-0245962.
09-MAY-2000; 2000JP-0136266.
                                                                                                                                                                                                                                                                                                                                                                                                            diagnosis; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human neuroblastoma cell line NB-1 1p36 nucleotide sequence SEQ ID NO:67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2917 gaggcggagcttgcagtgagctgagatccagccactgcactccagcctgggcgacagagc 2976
                                                                                                                                                                     (CHIB-) CHIBA PREFECTURE
                                                                                                                                                                                  (HISM ) HISAMITSU PHARM CO LTD.
                                                                                                                                                                                                                                                                      31-AUG-2000; 2000WO-JP05930.
                                                                                                                                                                                                                                                                                                          08-MAR-2001.
                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; chromosome 1; 1p36; neuroblastoma cell line; NB-1; anticancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-MAY-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF97853 standard; DNA; 13927 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2977 aagactccgtctcaaacaaaacaaagcaaaa 3007
                                                                                                                                                                                                                                                                                                                                           WO200116311-A1
                                                                                                                                                                                                                                                                                                                                                                                                                       tumour suppressor; human 1p36 homozygosity deletion domain; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2857 gcgggcgtctgtagtcccagctactcggggggctgaggcaggagaatggcttgaacctgg 2916
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                            1986 acctcgcccagccagttcactgacactttaaacaatataa 2025
6458 accgcgcccagctccatttctgatgtgttccaatatttca 6497
                                                                                                 6398 tgacctcaagtgatacacctgccttggcctcccaaagtgctgggattacaagtgggagcc 6457
                                                                                                                                 1928 tgacctcaagtgatctgcccaccttggcctcccaaagtgctgggattacaggt--gagcc 1985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a homozygosity deletion domain co-existing in the 36-position of the first chromosome short arm (1936) in human neuroblastoma. Also described are base sequences from the 1936 position of human neuroblastoma cell lines (NB-1 and MASS-NB-SCH-1), which are tumour suppressor genes in human neuroblastoma. The genes are tumour suppressor genes in human neuroblastoma are applicable as tumour markers and reagents in studying mechanism of tumour body formation, and gene diagnosis of tumours as well as in developing anti-cancer drugs. AAF9787 to AAF97829 represent PCR primers used in the exemplification of the present invention, and AAF97830 to AAF97874 represent sequences given in the exemplification of the present invention.
                                                                                                                                                                                                            6340 trtgtgttttt--ggtagagatggggtttcaccatgttcgccaggctagtctcgaattcc 6397
                                                                                                                                                                                                                                              1868 titgitattitcaggagagacaaaagittaatcatgigggccaggctggittigaactcc 1927
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5860 aggccgaggcgggatcacaaggtcaggagatcaagaccatcctggctaacacggtga 5919
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Match 5.2%;
Local Similarity 73.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        gagtgcactggtgtgatgttggctcactgcaacctccacctcccaggctcaagtgattct 1807
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AAC66548 RESULT 12

Human 1p36 homozygosity deletion domain from the 36-position of first chromosome short arm in human neuroblastoma cell lines, applicable e.g. in gene diagnosis of tumors as well as in developing anti-cancer drugs

WPI; 2001-226686/23.

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes the coding and protein sequences of the human kinesin-like protein HKLP. It is thought that the protein could be involved in neurological disorders, infertility, spontaneous abortion, neonatal chromosome disorders, aneuploidy and cancers. This is due to its function in the movement of microtubules. The protein shows homology to the murine KIFIA and KIFIB proteins. The sequences disclosed in the invention can be used in the isolation of similar human proteins and in vector production. In addition, the biallelic markers shown can be used in the invention can be used in the isolation of similar human proteins and in vector production. In addition, the biallelic markers shown can be used in the invention can be used in the invention
1474 aaccccgtctctactaaaaatac-aaaaaattagccgggcgtggtggcggcgcctgtag 1532
                                                                                                                                                                                                                                                                                                                                                    3235 aggccgaggcggggggatcacaaggtcaggagatcaagaccatcctggctaacacggtga 3294
                                                                                                                                                                                                                                                                                                                                                                            1414 aggccgagatgggcttatcacgagatcaggagatcgagaccatcctagccaacatgggga 1473
                                                                                                                                                                                                                                                                                                                                                                                                                                                  3175 ttaaaaagagctttcatggccaggcgcggtggctcacgcttgtaatcccagcactttggg 3234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1354 tttaaaatgccatttagggctgggcgcggtggctcacgcctgtaatcccagcactttggg 1413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         An isolated or purified human kinesin-like protein (HKLP) encoding polynucleotide used to detect HKLP polynucleotides in a sample comprises a contiguous span of at least 12 nucleotides -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          aneuploidy; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; kinesin-like protein; HKLP; KIFI; cell division; cancer; intracellular transport; neurological disorder; infertility; biallelic marker; spontaneous abortion; neonatal chromosome disorder;
                                                                           1593 agtgagccgagatcgcaccactgcactccagcctgggtgacagagtgagactccgtccca 1652
                                                                                                                                                 3355 tcctagctactcaggaggctgaggcaggagaatggcgtgaacctgggaggtggagcttgc 3414
                                                                                                                                                                          1533 tcccagctactcgggaggctgaggcaggagaatggcgtgaacccgggaggcgaagcttgt 1592
                                                                                                                                                                                                                                                Sequence 121162 BP; 33272 A; 24108 C; 25842 G; 37919 T; 21 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 143-175; 199pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-665242/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bougueleret L, Dufaure-Gare I, Grel P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-APR-1999;
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                                                3415 agtgagccgagatcgtgccactccccttcagctagggcgacagagggagactctgtctca 3474
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in disease diagnosis and population studies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match 5.2%; Score 340.4; DB 21; Length 121162; Local Similarity 73.4%; Pred. No. 3.4e-65;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3833 accgcgcccagctccatttctgatgtgttccaatatttca 3872
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; SPG4 gene; spastin; PSF-AD; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleotide sequence of the human SPG4 gene.
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95143 ACTGCAACCTCTGCCTCCCAAGTTCAAGTGATTCTCCTGCCTCAGCTTCCCAAGTAGCCA 95084
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                                                                                                                                                                                 95203 TTTTGAGACTGGGTCTCACTCTGTCGCCCAGGCTAGAGTGCAATGGGGCAATCTTGGCTC 9514
                                                                                                                                                                                                                                                                                                                                                        95323 AATTAATTAAAAAAAATAAAGGTTATTGAAAAACAAAATAGAACATTATTAAAGGATTAAC 95264
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                                       1773 actgcaacctcccacctcccaggctcaagtgattctcatgcctcagcctcccgagtagctt 1832
                                                                                                                                                                                                                             1716 ttttttgagaaagtcttgctctgttgc---ggctggagtgcactggtgtgatgttggctc 1772
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 2; Page 45-106; 145pp; French.
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Local Similarity 51.2%; Pred. No. 1.1e-64;
hes 1458; Conservative 0; Mismatches 1171; Indels 218; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99FR-0011097.
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exon

intron

73249..74633

exon

/"Lag= 0 /number= "7"

73174..73248

exon

/\*tag= m /number= "6"

..62438

intron

exon

61928..62061

intron

exon

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91234..93443

intron

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\*tag=

..89561

exon

intron

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intron

exon

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intron

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intron

.88129

exon

83195..83334 /\*tag= w /number= "11 83335..83414 exon

/number= "10 83103..83194 intron

.83102

intron

exon

..82864

74634..74705 /\*tag= r /number= "9" /4706..82788 /\*tag= s

exon

/number= "16" 100600..102009 /\*tag= ah

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1tectg 2797         TCCTG 94067	Oy 2738 ccagcactttgggggaccgaggcgggstggatcacaaggtcaggagatcgagacca	
y-aatc 2737         TAATC 94127	Qy 2694 ctcttaaaaacagttgaccgggcacggtggctcacgcctg	
ctgta 2693 	Qy 2634 ctggaggtggatagtgccgacggttccacatgtcaatgcacttaatgccaccaaac 	- 0
laagtt 2633     !AAGAG 94247	Qy 2574 aggatgggaagttaatgttagtaacaggtacggagtctcagtttgggaagataaa	
gagtcg 2573 	Qy 2514 tactcagagtggtctcattcattaaagtggaatggtagctgccagggggctggaggg 	- 0
tgagg 2513      TGGGC 94364	Qy 2464 tactaaatgaaatatgccagtcacggaaggacagattctcttgta	п о
catta 2463     CAAGC 94424	Qy 2404 acaaaccatgaagtattcacccttaaaagtcagacacacggatgaaacttggagc	п о
acaac 2403     CAAAG 94484	Qy 2344 atactagccaaaaggtggtggcagccccgtgtccattgatagatgaatgggtaa	Оу
tcattc 2343 	2284 gactotgaagooggaacttaagoatgtattoataoatocatgttoaoagoagta 	Qy Db
cacaa 2283   TTCTT 94604	y 2224 ttctcaaaaaaagaattacggcataatccagcaatgccacttctggatatatacc	DP 6A
aggat 2223   ACCTC 94664	y 2165 aagtgttaatggagggcactgtaaaatggtgcagccactatggaaa-acaggatg	Qy Db
tgaaa 2164   ACAGG 94724	y 2105 actaaataaagcatgcaaaaattgtggagcaaatattttaagtttttcaaaagcc 	라 상
acatac 2104    TGCTGG 94784	2045 tcaaataggttatttcaaaaaatgttggtagagaacatggaaaggcttttctgt	Dp QA
aaagt 2044    TTAGC 94844	y 1985 cacetegeceagecagtteactgacactttaaacaatataacacattteetaaaa	P 64
agc 1984     CCCGC 94904	y 1927 ctgacctcaagtgatctgcccaccttggcctcccaaagtgctgggattacaggtg 	DP GA
tc 1926    ACTTC 94964	y 1893 gtttaatcatgtgggccaggctggttttgaac	D 84
caaaa 1892 GTCTT 95024	1833 ggattacaggcgatttttttttacagttaatttttttttt	Db 09

3931	3 tttt-tattttttgtagagacagagtctcattatgttgccgaggctggtcttgaactcgt	387	Ωу
3872	3 totcacottagottocogagtagottgggactgtaggcacatgccaccatggccagotaat	381	Qy
92941		9300	Db
3812	3 ggagtgcagtgacctgacgatagcttacaacagcctctacctcccaggttcaagaaatct	375	Qy
9 <b>3</b> 001		9304	Db
3752	9tittattattatgtatttattttgagacagagtcttgctctgtctcccaggct	369	Qy
93048		9310	Db
3698	9 agctttggttttacttttcctatcatctttctaacttccagtaccagcctaattttgtta	363	Qy
93108		9316	Db
3638	9 agaagacaaatacttagaaaattgtgcaaaagactttccattttgttgcataacgtagga	357)	Qy
9 <b>3</b> 168		9322	Db
3578	9 caacatgtctgattgattgagagcactaatattcttaattcaaaaagacattttatcacaaa	351:	Qy
9 <b>3</b> 228		9328:	Db
3518	O	3480	Qy
93288		9334	Db
3479	8 tgccgtataatttaaaatacttctctttgcaaaagcagtcca	3438	Qy
9 <b>3</b> 348		9340	Db
3437 9 <b>3</b> 408	gagaaggagagat          CACTTAAAAATAC	3 <b>37</b> 8 9346	Qy Db
	gcagatgc       CTGGCAGACAT	3333 93527	Qy Db
3332	3 gctctgctattgcagtgcaaaagcagctaaaggcaacggtaaaggaatgacggaaggagc	3273	Qу
93528		93587	Дъ
3272	3 ctgtaaaggatctgatggtaaacattttccacttgagagctatgctcttgcagctactca	3213	Qy
93588		93647	Db
3212	3 ttagggtgggaattaggcttcctgggcgacacatctaatgcaaagatcagccaccttttt	3153	Qу
93648		93707	Дъ
3152	gataagggacctacttagtaagtattttttccccttctttct	3093	Qу
93708		93767	Дъ
3092	ttaaatgattcagtggaaatagaatggattcttcaaataacttagccacgggtgg	3038	Qy
93768		93827	Db
3037	agactcogtctcaaacaaaacaaagcaaaacaaaaaaaaacagttaagatttttttt	2978	Qy
93828		93887	Db
2977 93888	aggeggagettgeagtgagetgagateeagceactgeactceagcetgggegacagagea	2918 93947	Qу
2917	cgggcgtctgtagtcccagctactcggggggctgaggcaggagaatggcttgaacctggg	2858	Оy
93948		94007	

3992 ctgctcccagccttatttcgtatattt 4018

92940 TTTTGTATTTTCAGTAGAGATGCGGTTTCACCATATTGGCCAAGCTGGTCTCGAACTCCT 92881

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RESULT 14
AAD08215
                          neoplastic disorders and genetic disorders such as multiple sclerosis, including xeroderma, pigmentosum, Cockayne's syndrome, Bloom's syndrome and Werner's syndrome. NHL protein is useful for scleeting compounds active against neoplastic disorders. NHL protein is useful for screening and measuring levels of NHL, and for formulating kits suitable for detecting and typing WHL. The invention also relates to a method for lidentifying modulators of NHL activity. The present DNA sequence is human genome from BAC clone, hbm168. This human genomic DNA contains M68/DCR3, NHL DNA helicase, SCLIP and ARP gene at chromosome location 20 (20q13.3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              92822 CCGTGCCTGGCCTATTTATTTACTTTT 92796
                                                                                                                                                                                                  The invention relates to human DNA helicase protein, NHL and its corresponding DNA molecule. NHL gene is localised on human chromosome 20 (20q13.3). NHL protein and its DNA are useful for treating various
                                                                                                                                                                                                                                                                                                      Novel polynucleotide encoding mammalian DNA helicase, NHL, useful for screening and measuring levels of NHL, and for formulating kits suitable for detecting and typing NHL -
                                                                                                                                                                                                                                                                        Claim 23; Page 21-78; 169pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-DEC-2000; 2000WO-US33065.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200142434-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (MERI ) MERCK & CO INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; DNA helicase; NHL; cytostatic; neoplastic disorder; xeroderma; genetic disorder; multiple sclerosis; pigmentosum; Cockayne's syndrome; Bloom's syndrome; Werner's syndrome; therapy; chromosome 20; M68/DcR3; SCLIP; ARP; BAC clone hbm168; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HOMO sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                2001-381666/40.
                                                                                                                                                                                                                                                                                                                                                                                                                              Bai C, Metzker ML;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9908-0169970.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers 47095..85316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /product= "Human DNA helicase, NHL"
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Sequence 114793 BP; 24123 A; 32916 C; 31886 G; 25868 T; 0 other;

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RESULT 15
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Best Local Similarity 75.3%;
Matches 492; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     62802 cttggcctcccaaagtgctgggattacaggtgtgagccaccgcgcccggcctg 62854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           62742 ggggtttcccagcgttgcccaggctggtcttgaacccctgagctcaagtgatctgcccac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        62624 cccactgcaacctccacctcctgggctcaagccatcctcccacctcagcctcccgagtag 62683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    62684 ccgggactacaggtgcacaccaccacgcccggctaatttttgtattttt--tgtagaggc 62741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62564 gtttgttgagacagggtctccttctgtcgtccaggctggagttcagtggtatgatcttgg 62623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62506 caaaaaaaataaaatcaaaaa --gaataattggcaattccagtgaaataattgtttgttt 62563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                62447 gcaatgagccaagatcacaccactgtactccagcct-ggtgacagagcaagactccgtct 62505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62387 agtoccagotactcaggaggotgaggcaggagaatcactcgaacccaggaggtagaggtt 62446
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1950 cttggcctcccaaagtgctgggattacag--gtgagccacctcgcccagccag 2000
                 31-AUG-2000; 2000WO-JP05930.
                                                                           08-MAR-2001.
                                                                                                                                WO200116311-A1
                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                           tumOur suppressor; human 1p36 homOzygosity deletion domain; tumour;
                                                                                                                                                                                                                                                                                        Human; chromosome 1; 1p36; neuroblastoma cell line; NB-1; anticancer;
                                                                                                                                                                                                                                                                                                                                          Human neuroblastoma cell line NB-1 1p36 nucleotide sequence SEQ ID NO:76.
                                                                                                                                                                                                                                                                                                                                                                                                 31-MAY-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAF97862;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF97862 standard; DNA; 22081 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1890 agagtitaatcatgtgggccaggctggttttgaactcctgacctcaagtgatctgcccac 1949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1770 ctcactgcaacctccacctcccaggctcaagtgattctcatgcctcagcctcccgagtag 1829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1711 gtttgttttttgagaaagtcttgctct-gttgcggctggagtgcactggtgtgatgttgg 1769
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1531 agtcccagctactcgggaggctgaggcaggagaatggcgtgaacccgggaggcgaagctt 1590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1472 gaaaccccgtctctactaaaaatac-aaaaaattagccgggcgtggtggcggacgcctgt 1530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1412 ggaggccgagatgggcttatcacgagatcaggagatcgagaccatcctagccaacatggg 1471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1352 tatttaaaatgccatttagggctgggcgggtggctcacgcctgtaatcccagcactttg 1411
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31-AUG-1999;

99JP-0245962

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12085 ggcacatgcccgtagaaccagcgactcgggaggctgagaccaggaggaaccacctgaattc 12144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11965 gcactttgggaagctgaggtgggagcagcatcacttgagccctggagttttgagaccagc 12024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11905 tctcagtacaaacagcacgcactgctggccagggggtagtggcttctgcctgtaatccca 11964
                                                                    12325 ccgaggctggagtacagtggtgtggtcatgggtcactgcaacctccatctcctgggctta 12384
                                                                                                                                                                                                                                                                           12205 caagacccagtctaaaaaaaaaccaccactgctccaggggtccaggggtcaggcacactc 12264
                                                                                                                                                                                                                                                                                                                                                                           12145 ggggagttcaaagttgcagtgagcagtgattgaatcactgcactccagcctgggcaagag 12204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12025 ctagacaacatggtgagaccttgtctctacaaaaaatacaaaaattagtggggggtggt 12084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in human neuroblastoma. Also described are base sequences from the 1936 position of human neuroblastoma cell lines (NB-1 and MASS-NB-SCH-1), which are tumour suppressor genes in human neuroblastoma. The genes are tumour suppressor genes, base sequence data of which are applicable as tumour markers and reagents in studying mechanism of tumour body formation, and gene diagnosis of tumours as well as in developing anti-cancer drugs. AAF97787 to AAF97829 represent PCR primers used in the exemplification of the present invention, and AAF97830 to AAF97874 represent sequences given in the exemplification of the present
                                                                                                                                                                      1404 gcactttgggaggccgagatgggcttatcacgagatcaggaga-----tcgagaccatc 1457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1344 tatccggatatttaaaatgccatttagggctgggcgggtggctcacgcctgtaatccca 1403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human 1p36 homozygosity deletion domain from the 36-position of first chromosome short arm in human neuroblastoma cell lines, applicable e.g in gene diagnosis of tumors as well as in developing anti-cancer drugs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-MAY-2000; 2000JP-0136266.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1518 ggcggacgcctgtagtcccagctactcgggaggctgaggcaggag--aatggcgtgaacc 1575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1458 ctagccaacatggggaaaccccgtctctactaaaaatacaaaaaattagccgggcgtggt 1517
                                                                                                                                                                                                                                                                                                                                                                                                      1576 cgggaggcgaagcttgtagtgagccgagatcgcaccactgcactccagcctgggtgacag 1635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 22081 BP; 5910 A; 5508 C; 5430 G; 5233 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a homozygosity deletion domain co-existing in the 36-position of the first chromosome short arm (1p36)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 8; Page 149-158; 226pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-226686/23.
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1740 -tgcggctggagtgcactggtgtgatgttggctcactgcaacctccacctcccaggctca 1798
                                                                                                                                                                                                                       1682 ggtcttcgtaaacaattcactgcctgtttgtttgtttttttgagaaagtcttgctctgt-- 1739
                                                                                                                                                                                                                                                                                                                          1636 agtgagactccgtcccaaaaaaaaaaaaa-----aaaaaaaaatgccgttta 1681
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2877 ctactcggggggctgaggcaggagaatggcttgaacctgggaggcggagcttgcagtgag 2936
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Db 13462 ccaagaccacgccactgcactccagcctgggtgacagagcgagactctgtctcaaaaaaa 13521

Search completed: November 29, 2001, 09:34:35 Job time: 19671 sec

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Minimum DB seq length: 0
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4.5 18073
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
/cgn2_6/ptodata/2/ina/5B_COMB.seq:*
/cgn2_6/ptodata/2/ina/6A_COMB.seq:*
/cgn2_6/ptodata/2/ina/6B_COMB.seq:*
/cgn2_6/ptodata/2/ina/6B_COMB.seq:*
/cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
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FCT-US95-07201-43
FCT-US95-07201-43
SCT-US95-07201-43
US-08-781-891-79
US-08-814-095-7
US-08-814-095-7
US-08-724-394A-22
US-08-724-394A-21
US-08-724-394A-21
US-08-759-873-5
US-08-759-873-5
US-08-759-873-5
US-08-759-873-5
US-08-759-873-5
US-08-759-873-5
US-08-759-873-5
US-08-759-873-5
US-08-759-873-6
US-09-128-155-17
SCT-US93-06251-83
US-09-128-155-16
US-09-128-155-17
US-08-724-394A-20
US-09-031-392-1
US-08-724-394A-21
US-09-031-392-1
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7544.614 Million cell updates/sec
    Sequence 43, Appl
Sequence 79, Appli
Sequence 77, Appli
Sequence 77, Appli
Sequence 72, Appli
Sequence 20, Appl
Sequence 21, Appl
Sequence 21, Appli
Sequence 5, Appli
Sequence 5, Appli
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C	O	O															
5	44	43	42	41	40	39	38	37	36	35	34	ω ω	32	<b>3</b> 1	30	29	28
249.2	249.4	249.4	249.6		250.8	250.8	250.8	250.8	250.8	250.8		250.8		250.8	250.8	254.4	254.4
3.8	3.8	3. 8	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
40328	6354	1712	10380	10825	10825	10825	10825	10825	10825	10825	10825	10825	10825	10825	10825	15328	15328
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US-08-742-185-102	US-09-058-389A-5	US-09-058-389A-12	US-09-077-354B-3	US-09-503-444A-7	US-09-503-444A-5	US-09-503-444A-3	US-09-503-444A-1	US-08-834-497A-7	US-08-834-497A-5	US-08-834-497A-3	US-08-834-497A-1	US-08-652-265-7	US-08-652-265-5	US-08-652-265-3	US-08-652-265-1	PCT-US94-07926-33	US-08-888-497-33
Sequence 102, App	Sequence 5, Appli	Sequence 12, Appl	Sequence 3, Appli	Sequence 7, Appli	Sequence 5, Appli	Sequence 3, Appli	Sequence 1, Appli	Sequence 7, Appli	Sequence 5, Appli	Sequence 3, Appli	Sequence 1, Appli	Sequence 7, Appli	Sequence 5, Appli	Sequence 3, Appli	Sequence 1, Appli	Sequence 33, Appl	Sequence 33, Appl

#### ALIGNMENTS

TYPE: NUCLEIC ACIG STRANDEDNESS: Double TOPOLOGY: Unknown MOLECULE TYPE: Genomic DNA	
1: 22481	
INFORMATION FOR SEQ ID NO: 43:	
TELEPHONE: (212) 758-4800	
REFERENCE/DOCKET NUMBER: 20264126PCT TELECOMMUNICATION INFORMATION:	
TRATION NUMBER: 3643	
ATTORNEY/AGENT INFORMATION:	
DATE: 24-SEP-	
PRIOR APPLICATION DATA: APPLICATION NUMBER: 07/952,796	
FILING DATE: 07-JUN-1994	٠.
APPLICATION	٠
PLICATIO	
APPLICATION NUMBER: 08/30/,841	
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CLASSIFICATION:	٠
FILING DATE: 06-JUN-1995	
CURRENT APPLICATION UNIMBER: DOM/HSQS/07201	
SOFTWARE: WORDPERFECT 5.1	٠.
OPERATING SYSTEM: PC-DOS/MS-DOS	<b>.</b>
COMPUTER: IBM PC Compatible	
COMPUTER READABLE FORM:	
ZIP: 10154	٠.
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CITY: New York	
PONDENCE ADDRESS	٠.
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OF INVENTION: DEALWED FACTOR, CHARACTER	
OF INVENTION: DEBITED EXCHADS: CHARACTERIZATION	٠.
Taniwaki, Takayuki	٠
APPLICANT: Chader, Gerald J.; Becerra, Soila ADDITOANT: Datricia: Schwartz, Joan P.;	
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PCT-US95-07201-43 : Sequence 43, Application PC/TUS9507201	. 'p
RESULT 1	Z

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RESULT 2
PCT-US95-07201-43/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 43, Application PC/TUS9507201 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches 490; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 5.5%; Score 357.6; DB 5; Length 22481; Best Local Similarity 76.8%; Pred. No. 2.1e-84;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13392 CCATCTTCCTCGGCCTGCCAAAGTGCTGGGATTATAGG 13429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13213 TCTTGGCTGCAATCTTGGCCTCCTGAGTTCAACCAATTCTCATGCCTCAGCCTCCC 13272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13333 TAGAGA-TGGGGCCTCACCATGTTGCTCAGGTTGGTCTGAAACTCCTGAGCTCAAGTGAT 13391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12796 CAGGAGATTAAGACTGCAGTGAGGGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCA 12855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13273 AAATAGCTGGGACCACAGGCACGTGCCACCACGCCCAGCTAATTTTTTGGGTATTTTAG 13332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12856 CTTTGGGAGGTGGAGGTGGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAAC 12915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13153 CTTTCTTTTTTAGAGACAGAGTCTCACTCCATCACCCATGCTGGAGTACAGTGGTGCGA 13212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13036 GCTTGCAGTGAGCTGAGCTCGCACCACTGCACTCCAGCCTGGGCGACAGAGTGAGACTCC 13095
                                                                                                                                                                                                                    TITLE OF INVENTION: PIGMENT EPITHELIUM
TITLE OF INVENTION: DERIVED FACTOR: CHARACTERIZATION GENOMIC
TITLE OF INVENTION: ORGANIZATION AND SEQUENCE OF THE PEDF GENE
                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Chader, Gerald J.; Becerra, Sofia APPLICANT: Patricia; Schwartz, Joan P.; APPLICANT: Taniwaki, Takayuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1942 ctgcccaccttggcctcccaaagtgctgggattacagg 1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1882 gagagacaaaagtttaatcatgtgggccaggctggttttgaactcctgacctcaagtgat 1941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1764 tgttggctcactgcaacctccacctcccaggctcaagtgattctcatgcctcagcctccc 1823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1707 gtttgtttgttttttgagaaagtcttgctctgttgc---ggctggagtgcactggtgtga 1763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12916 ACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTGGGTGTGGTGGGGGGGCGC 12975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1407 ctttgggaggccgagatgggcttatcacgagatcaggagatcgagaccatcctagccaac 1466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1347 ccggatatttaaaatgccatttagggctgggcgcggtggctcacgcctgtaatcccagca 1406
                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1587 gcttgtagtgagccgagatcgcaccactgcactccagcctgggtgacagagtgagactcc 1646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1467 atggggaaaccccgtctctactaaaaatacaaaaaattagccgggcgtggtggtggcgg 1526
                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1647 gtcccaaaaaaaaaaaaaaaaaaaaaatgccgtttaggtcttcgtaaacaattcactgcct 1706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
CITY: New York
                                                  STREET:
                                                                                          ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: full length genomic OTHER INFORMATION: sequence for PEDF plus flanking sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IDENTIFICATION METHOD:

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LOCATION:
                                                  345 Park Avenue
                                                                                          Morgan & Finnegan, L.L.P.
                                                                                                                                                                                                43
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9;
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                                                                                                                                                                                                                                                                                                                                                                                                                              Db 13470 ATATAAATATAAAAATTGGGAGCTAGGTGCAGTGGCTTATGCCCTATAATCCCAGCACTTT 13411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCT-US95-07201-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches 490; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                 13350 GGTGAGGCCCCATCTCTACTAAAAATACCCAAAAAATTAGCTGGGCGTGGTGGCACGTGC 13291
                                          INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                    13410 GGCAGGCCGAGGAAGATGGATCACTTGAGCTCAGGAGTTTCAGACCAACCTGAGCAACAT 13351
                                                                                                                                                                                             13290 CTGTGGTCCCAGCTATTTGGGAGGCTGAGGCATGAGAATTGGTTGAACTCAGGAGGCCAA 13231
1707 gtttgtttgtttttgagaaagtcttgctctgttgc---ggctggagtgcactggtgtga 1763
                                                               1647 gtcccaaaaaaaaaaaaaaaaaaaaaatgccgtttaggtcttcgtaaacaattcactgcct 1706
                                                                                                                                                                                                                                                                                              1469 ggggaaaccccgtctctactaaaaata--caaaaaattagccgggcgtggtggtggcggc 1526
                                                                                                                                                                                                                                                                                                                                                                            | 1411 999a99ccgagatg99cttatcac--gagatcaggagatcgagaccatcctagccaacat 1468
                                                                                                                                                                                                                                                                                                                                                                                                                                                     1351 atatttaaaatgccatttagggctgggcgcggtggctcacgcctgtaatcccagcacttt 1410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1527 ctgtagtcccagctactcgggaggctgaggcaggagaatggcgtgaacccgggaggcgaa 1586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 36434
REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
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MEDIUM TYPE: Floppy |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: Genomic DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: full length genomic OTHER INFORMATION: sequence for PEDF plus flanking sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Match 4.8%; Score 313.8; DB 5; Length 22481; Local Similarity 74.6%; Pred. No. 9.3e-73;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: P1-147
LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: New York COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IDENTIFICATION METHOD:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER:
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IBM PC Compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WORDPERFECT 5.1
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US-08-781-891-79
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patent No. 6090620
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                                                                            Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12933 GAGAC-GGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTC--GTGATCC 12877
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29503 AAAATAAATATTCTGGCCGGGCGCTGTGGCTCACGCTTGTAAATCCCCAGGACTTTGGGAG 29562
                                                                                                                                                                                                                                                                        TELEFAX: (206) 682-6031 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1884 gagacaaaagtttaatcatgtgggccaggctggttttgaactcctgacctcaagttgatct 1943
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Schellenberg, Gerald D.
TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
TITLE OF INVENTION: WERNER'S SYNDROME
                 1357 aaaatgccatttagggctgggcgcggtggctcacgcctgt-aatcccagcactttgggag 1415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                 NAME: NO. 6090620tenburg Ph.D., Carol REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 240052.419
TELECOMMUNICATION INFORMATION:
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                                                             4.8%; Score 309.4; DB 3; Length 87350; Local Similarity 72.6%; Pred. No. 3.4e-71; les 480; Conservative 0; Mismatches 145.
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                                                                                                                                                                                                                 STRANDEDNESS:
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                                                                                                                                                                                                linear
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APPLICANT: Shanil Moshe
TITLE OF INVENTION: TRANSGENIC ANIMAL ASSAY SYSTEM FOR
TITLE OF INVENTION: ANTI-CHOLINESTERASE SUBSTNACES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1983 g 1983
                                                                                                SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
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ATTORNEY/AGENT INFORMATION:
                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                              STATE:
                         FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                 STREET:
                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                          MEDIUM TYPE:
                                                                                                                                                                                                                                                           ZIP: 48334
                                                                                                                                                                                                                                                                                                                                          CITY: Farmington Hills
                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
                                                                                                                                                                                                                                                                                                              Michigan
                                                                                                                                                                                                                                                                                                                                                                 E: KOHN & ASSOCIATES 30500 No. 6025183thwestern Highway, Suite 410
                                                                                                                                                                                                                                                                                       U.S.
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                                                                                                                                                                                                       Floppy disk
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                                                                             US/08/814,095
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REFERENCE/DOCKET NUMBER: 2391.00066
TELECOMMUNICATION INFORMATION:
TELEPHONE: (248) 539-5050
TELEPAX: (248) 539-5055
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
FEATURE:
                                                                                                                                 FEATURE:
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DESCRIPTION: /desc = "Cosmid including ACHE

DESCRIPTION: promotor, ACHE gene and ARS gen

HYPOTHETICAL: NO
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     IDENTIFICATION METHOD: experimental OTHER INFORMATION: /evidence= EXPERIMENTAL OTHER INFORMATION: /gene= "ACHE" OTHER INFORMATION: /number= 6
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OTHER INFORMATION:
                                                                                             LOCATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IDENTIFICATION METHOD: experimental OTHER INFORMATION: /evidence= EXPERIMENTAL OTHER INFORMATION: /gene= "ACHE"
                                                                                                               NAME/KEY:
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IDENTIFICATION METHOD:
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LOCATION: 25524..26009
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OTHER INFORMATION: /standard_name= "aCHE Promotor"
                                                                                                                                                 LOCATION:
                                                                                                                                                                                                                                                                                                NAME/KEY:
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LOCATION: 22465..22537
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TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IDENTIFICATION METHOD:
                                                                                                                                               terminator 27385..27387
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27005..27274
                                                                                         28008..28129
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24090..25177
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/gene= "ACHE"
                                                                                                                                                                                                                     /evidence= EXPERIMENTAL
/gene= "ACHE"
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24110)"
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/gene= "ACHE"
/number= 2
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                                                               LOCATION: complement (30470..30626)
OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 13
                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: complement (31894...32080)
OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 9
LOCATION: complement (30187..30274) OTHER INFORMATION: /gene= "AR"
                                                                                                                                                            LOCATION: complement (30816..31011)
OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 12
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OTHER INFORMATION: /gene= "AR"
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OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 7
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LOCATION: comp
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OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 6
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OTHER INFORMATION:
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OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 2
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OTHER INFORMATION: /function= "arset
OTHER INFORMATION: /gene"
OTHER INFORMATION: /gene= "AR"
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RMATION: /gene= "AR"
RMATION: /number= 8
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RMATION: /gene= "AR"
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/number= 12
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/number= 11
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/number= 3
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/number= 10
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/number= 5
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/number= 14

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1845 attttttttacagttaattttttttgttattttcaggagagacaaaagtttaatcatgt 1904
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9324 TTTTCTTTATAAATCACCCAGTCTTAGGCATTTATAGCAATGCAAGAATGGCCTAACACG 9265
                                               2144 aagtttttcaaaaagcctgaaaaagtgttaatggaggcactgtaaaatggtgcagccact 2203
                                                                                                    9384 AGCAAATGCTGGCACCGTGCTTCCTGTACAGCCTGCAGAACCGTGAGCCAAATAAACTTT 9325
                                                                                                                                                       2085 aaaggcttttctgtacatacactaaataaagcatgcaaaaat-tgtggagcaaatatttt 2143
                                                                                                                                                                                                                  9444 ACATGCCAGCTCCCCTTCAACTTCCCCTGTAAGTGGAAGCTTCCTGAGGTCCTCACCAGA 9385
                                                                                                                                                                                                                                                                  2025 acacatttcctaaaaaaagttcaaataggttatttcaaaaaatgttggtagagaacatgg 2084
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4.7%; Score 307.6; DB 3; Length 35060;
Local Similarity 48.6%; Pred. No. 5.6e-71;
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OTHER INFORMATION: /gene= "ARS"
OTHER INFORMATION: /number= 16
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QTHER INFORMATION: /gene= "AR"
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δÃ QΥ 밁 Qγ Db QΥ В QY 밁 Ş δÃ Qy Db Ş В QΥ 밁 밁 DЬ Qy В DЬ Q В 9264 TTTGTTTTGCAACTGTGAGTGTGAATCAACATATTGGTTCTTTTCAATGCTCAAAACATT 9205 8664 ACCAGCCTGGCCAACATGGCAAAACCCTGTCTCTACTAAAAAATACAAAAATTATCTGG 8605 2732 tg-aatcccagcactttgggggaccgaggcgggatcac--aaggtcaggagatcgag 2788 2612 cagtttgggaagataaaaagttctggaggtggatagtgccgacggttccacatgtcaatg 2671 8964 GGAGTGTGAGACCAGCCTGGCCAACATGACCAAACCCCCGTCTCTACTAAAAATACAAAAA 8905 9024 GTGACTCATGCCTGTAATCCAGCATTTGGGAGGCCGAGGTGTGTGGATCACCTGAGGTCA 8965 2432 gtcagacacacggatgaaacttggagccattatactaaatgaaatatgccagtcacggaa 2491 9084 AAAAGAATTTAAATAAGAATAAGTTTAATAAATTTAAGTAAGAATTTAAGGCCAGGCGTG 9025 9144 AAGTCCTGGCAGATATTTCAAAGTAAAATAATGAAAATTTATAGAAAGGAATTGAGGAAT 9085 2320 tccatgttcacagcagtatcattcatactagccaaaaggtggtggcagcccccgtg---- 2375 9204 GTGCTTTAATTGTGAGACACATAAGGCTGGCATATGGGTTGCCAAAATTATGATTCTTGA 9145 2204 atgg----aaaacaggatgaggatttctcaaaaaaagaattacggcataatccagcaatg 2259 3027 ttttttttttttaaatgattcagtggaaatagaatggattcttcaaataacttagccac 3086 2909 gaacctgggaggcggagcttgcagtgagctgagatccagccactgcactccagcctgggc 2968 8604 GCCTGGTGGCGGGCGCCTGTAATCCCAGCTATTTGGGAGACTGAGGCAGGAGAATTGCTT 8545 2849 gtgcggtggggggtctgtagtcccagctactcgggggggctgaggcaggagaatggctt 2908 2789 accatectggctaacacggtgaaaccccgtetetactaaaaatacaaaagaattagccgg 2848 8724 TGTAATCCCAGTACTTTGAGAGGCCGAGGTGGGTGGATCACCTGAGGTTAGGAGTTCAAG 8665 8784 GCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAAAAGGCTGGGTGTGGTGGCTCATGCC 8725 2672 cacttaatgccaccaaactgtactcttaaaaacagttgaccgggcacggtggctcacgcc 2731 8844 AATCACTTGAACCTGGGAGGTGGAGGCTGTAGTGAGCCAAGATCGCACCACTGCACTCCA 8785 8904 TTAGCCGGGCATGATGGCAGGTGCCTGTAATCCCAGCTGCTCAAGAGGCTGAGGCAGGAG 8845 2552 tgccaggggctggagggagtcgaggatgggaagttaatgttagtaacaggtacggagtct 2611 2376 ----tccattgatagatgaatgggtaaacaacaccatgaagtattcacccttaaaa 2431 2260 ccacttctggatatatacccacaagactctgaagccggaacttaagcatgtattcataca 2319 8244 TGTGTGCCACCCCGCTGGGCTAATTTTTTGCATTTTTTGTAGAGAAGGGGTCTTGCTATGT 8185 8364 GGGTCTTGCTCTGTCACCCAGGCTGTAGTACAGTGGCATAATCATAGCTCACTGCAGCCT 8305 2969 gacagagcaagactccgtctcaaacaaaacaaagca--aaacaaaaaaacagttaagat 3026 8544 GAATCTAGGAGGTAGAGGTTGCAGTGAGCCGAGATCGCACCACTGCCCTCCAGCCTGGGC 8485 3207 ctttttctgtaaaggatctgatggtaaacattttccacttgagagctatgctcttgcagc 3266 8304 CAAACTCCTGGGCTCAAGTGAGCCTCCCACCTCAGCCTCCCCAGTAGCTGGGACTACAGG 8245 3147 gatgtcttagggtgggaattaggcttcctgggcgacacatctaatgcaaagatcagccac 3206

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US-08-814-095-7
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                                                                                                                                                                                                                                                                      Sequence 7, Application US/08814095 Patent No. 6025183
                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                               APPLICANT: Soreq, Hermon
APPLICANT: Zakut, Haim
APPLICANT: Shani, Moshe
                                                                                                                                   TITLE OF INVENTION: TRANSGENIC ANIMAL ASSAY SYSTEM TITLE OF INVENTION: ANTI-CHOLINESTERASE SUBSTNACES
                                                                                                                                                                                                                                                                                                                                                                                                       7406 CTTCTATCTAATTGTATTTTTGT 7384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3949 ctgccttggcctcccaaagtgttgggattacaggcattaagccactgctcccagccttatt 4008
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                                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                           4009 tcgtatatttactataagtgtgt 4031
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                                                                                                                     NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3770 cgatagcttacaacagcctctacctcccaggttcaagaaatcttctcaccttagcttccc 3829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7706 TTTTTTTTTTTTAGGCGGAGTCTCACTCTGTCACCCAGGCTGAAGTGCAATGACGCAG 7647
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3612 ctttccattttgtt--------gcataacgtaggaagctttggttt 3649
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                            ADDRESSEE: KOHN & ASSOCIATES
STREET: 30500 No. 6025183thwestern Highway, Suite 410
CITY: Farmington Hills
         STATE: Michigan
                                                                                                                                                                                                                       Soreq, Hermona
                                                                                                                                                          TRANSGENIC ANIMAL ASSAY SYSTEM FOR
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                                                                                                                FEATURE
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REFERENCE/DOCKET NUMBER: 239
TELECOMMUNICATION INFORMATION:
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ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Cosm1d including ACHE
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LENGTH: 35060 base pai
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NAME: Montgomery, Ilene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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                                                                                                                                                                      IDENTIFICATION METHOD:
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  OTHER INFORMATION: OTHER INFORMATION:
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OTHER INFORMATION: /evidence= EXPERIMENTAL
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OTHER INFORMATION:
                                          IDENTIFICATION METHOD:
                                                                 NAME/KEY: exon
LOCATION: 27255..28007
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LOCATION:
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LOCATION: 2409
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LOCATION: 22465..22537
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LOCATION: 4089..22464
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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OR SEQ ID NO:
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/evidence= EXPERIMENTAL
/gene= "ACHE"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /function= "ACHE Promotor"
/standard_name= "ACHE Promotor"
                                                                                                                                                   /evidence= EXPERIMENTAL
/gene= "ACHE"
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/gene= "ACHE"
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/gene= "ACHE"
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FEATURE:
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OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 3
                            LOCATION: complement (31131..31284)
OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 11
                                                                    NAME/KEY:
LOCATION:
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OTHER INFORMATION: /number= 9
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OTHER INFORMATION: /number= 8
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OTHER INFORMATION: /gene= "AR"
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                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: exon
LOCATION: complement (32569..32628)
OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 7
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8670 ACTCCTAACCTCAGGTGATCCACCCACCTCGGCCTCTCAAAGTACTGGGATTACAGGCAT 8729
                                 1923 actcctgacctcaagtgatctgcccaccttggcctcccaaagtgctgggattacagg--t 1980
                                                                                                                                                        1863 ttttttttgttattttcaggagagacaaaagtttaatcatgtgggccaggctggttttga 1922
                                                                                                                                                                                                                                                                                                                                                              8490 GGCTGGAGGGCAGTGCGATCTCGGGCTCACTGCAACCTCTACCTCCTAGATTCAAGCA 8549
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OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 12
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OTHER INFORMATION: /gene= "ARS"
OTHER INFORMATION: /number= 16
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OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 14
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OTHER INFORMATION: /gene= "AR"
OTHER INFORMATION: /number= 13
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APPLICANT: Choo, Kong-Hong Andy

APPLICANT: Du Sart, Desiree

APPLICANT: Cancilla, Michael R.

TITLE OF INVENTION: A NOVEL NUCLEIC ACID MOLECULE

FILE REFERENCE: Davies Col
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NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/078, 294
                                                                                10151 GGGTTTTGCCATGTCGGCTAGGCTGGTCTTGAGCTCCTGGCTTCAAGTGATCCACCTGCC 10092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10439 GTATGCCGAGACTGCGCCATTGCACTCCAGACTGGGCGACAGGGTGAGACTGTCTCAAAG 10380
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1951 ttggcctcccaaagtgctgggattacag--gtgagccacctcgcccagccagttcact 2006
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                                                                                                                                                                                                                1834 gattacaggcgattttttttttacagttaattttttttgttattttcaggagagaca---a 1890
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Local Similarity 71.4%;
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US-08-724-394A-20
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; Patent No. 58722
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                                                                                                                                                                                                                                                                                                   Matches 288; Conservative
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1535 ccagctactcgggaggctgaggcaggagaatggcgtgaacccgggaggcgaagcttgtag 1594
                                                                                   1475 accccgtctctactaaaaatacaaaaaattagccgggcgtggtggtggcggacgcctgtagtc 1534
                                                                                                                                                              1415 ggccgagatgggcttatcacgagatcaggagatcgagaccatcctagccaacatggggaa 1474
                                                         2973 TAAAAAGTCTTTATAAGGCCGGGGCGCGCTGGCTCACGCCTGTAATCCCCAGCACTTTGGGA 3032
                                                                                                                                         3033 GGCCGAGGCGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCCGGCTAAAACGGTGAA 3092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: CDNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Tsuchihashi, Zenta
APPLICANT: Wolff, Roger K.
TITLE OF INVENTION: Megabase 1
                                                                                                                                                                                                                                                                                                                     Match 4.2%;
Local Similarity 90.6%;
                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION: 1..246240
OTHER INFORMATION: /note= "HLA-H.CONTIG"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Fitts, Renee A. REGISTRATION NUMBER: 35,136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 0
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: misc_feature
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TOPOLOGY: not
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      not relevant
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SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                   0; Mismatches
                                                                                                                                                                                                                                                                                                                Score 270; DB 2;
Pred. No. 2.1e-60;
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                                                                                                                                                                                                                                                                                                 30; Indels
                                                                                                                                                                                                                                                                                                                                          Length 246240;
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3153 CCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCCGGGAGGCGGAGCTTGCAG 3212

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US-08-724-394A-21; Sequence 21, Application US/08724394A
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MEDIUM TYPE: Floppy disk
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1415 ggccgagatgggcttatcacgagatcaggagatcgagaccatcctagccaacatggggaa 1474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Megabase Transcript Map: No. 58' TITLE OF INVENTION: Sequences and Antibodies Thereto NUMBER OF SEQUENCES: 31
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                                                                                 1355 ttaaaatgccatttagggctgggcgcggtggctcacgcctgtaatcccagcactttggga 1414
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LENGTH: 246240 base pa
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                                                           2973 TAAAAAGTCTTTATAAGGCCGGGCGCGCTGGCTCACGCCTGTAATCCCCAGCACTTTGGGA 3032
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CITY: San Francisco
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                  NAME/KEY: misc_feature
LOCATION: 1..246240
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                                                                                                                                . MATCH 4.2%;
LOCAL Similarity 90.6%;
LOCAL Similarity 90.6%;
LOCAL SIMILARITY 90.6%;
                                                                                                                                                                                                                                                                                                                                                                                      TYPE: nucleic acid
STRANDEDNESS: not relevant
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 536
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Wolff, Roger K.
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                                                                                                                                                                                                                                                                                                                                                                         not relevant
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                                                                                                                                                                 Score 270; DB 2; Length 246240; Pred. No. 2.1e-60;
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US-08-724-394A-22
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INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
LENGTH: 246240 base pairs
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TELEPHONE: 415-576-0200
TELEFAX: 415-576-0300
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NAME: Fitts, Renee A.
REGISTRATION NUMBER: 35,
                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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TITLE OF INVENTION: Sequences and Antibodies Thereto
NUMBER OF SEQUENCES: 31
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                                                                                FEATURE:
                                                                                               MOLECULE TYPE:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin palantenerman
                   NAME/KEY: misc_feature
LOCATION: 1..246240
OTHER INFORMATION: /note= "HLA-H.CONTIG"
                                                                                                                                       TYPE: nucleic acid
STRANDEDNESS: not relevant
                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 94111-3834
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                                                                                                                       TOPOLOGY:
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                                                                                                                     not relevant
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Query Match
Best Local Similarity

4.2%;

Score 270; DB 2; Pred. No. 2.1e-60;

Length 246240;

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US-08-694-915-5
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                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
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                         MOLECULE TYPE: CI
HYPOTHETICAL: NO
                                                                                                                                                         SEQUENCE CHARACTERISTICS:
         ANTI-SENSE:
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APPLICANT: Kirkpetrick, Robert
APPLICANT: Rosenberg, Martin
TITLE OF INTERNATION: HUMAN CARTILEGE GP39-LIKE GENE
                                                                                                                                                                                                                                           TELEPHONE: 610-270-5219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: FastSEQ Version 1.5 CURRENT APPLICATION DATA:
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ADDRESSEE: Smithkline Beecham Corporation STREET: 709 Swedeland Road
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NAME: Han, William T
                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
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                                                                     TOPOLOGY:
                                                                                      STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP:
                                                                                                                                                                                                                           TELEFAX: 610-270-5090
                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                FILING DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/694,915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: King of Prussia
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                                                                                                           H: 3742 base pairs nucleic acid
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Sequence 5, Application US/08629939
Patent No. 5645995
GENERAL INFORMATION:
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Best Local Similarity
                                                                                                                         TELEFAX: (202) 293-7860 INFORMATION FOR SEQ ID NO:
                                                                                                                                                              TELECOMMUNICATION INFORMATION: TELEPHONE: (202) 293-7060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Kieback, TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
MOLECULE TYPE:
                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION: NAME: KIT, Gordon
                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn Rel
CURRENT APPLICATION DATA:
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ORIGINAL SOURCE:
                                                            TYPE: n
                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Pelantin
                                  STRANDEDNESS:
                                                                                                                                                                                                                                  REGISTRATION NUMBER: 30,764
                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/629,939
FILING DATE: 12-APRIL-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: SUGHRUE, MIUN, MINN, MINN, Suite 800 STREET: 2100 Pennsylvania Avenue, N.W., Suite 800
                    TOPOLOGY:
                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE:
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89.7%; Pred. No. 3.9e-61;
ative 0; Mismatches 33
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US-08-759-873-5/c
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Best Local Similarity 90.58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                 REFERENCE/DOCKET NUMBER: A-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 293-7060
TELEFAX: (202) 293-7860
INFORMATION FOR SEQ ID NO: 5:
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TITLE OF INVENTION: METHODS FOR DIAGNOSING AN INCREASED RISK
TITLE OF INVENTION: OF BREAST OR OVARIAN CANCER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1537 agctactegggaggctgaggcaggagaatggcgtgaaccegggaggcgaagcttgtagtg 1596
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                                                                                                                  SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
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HYPOTHETICAL:
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                                                                               TYPE:
                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: FILING DATE: 12-API
                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                    TOPOLOGY:
                                                   STRANDEDNESS:
                                                                                                                                                                                                                               REGISTRATION NUMBER: 30,764
                                                                                                                                                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE:
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                                                                                              LENGTH:
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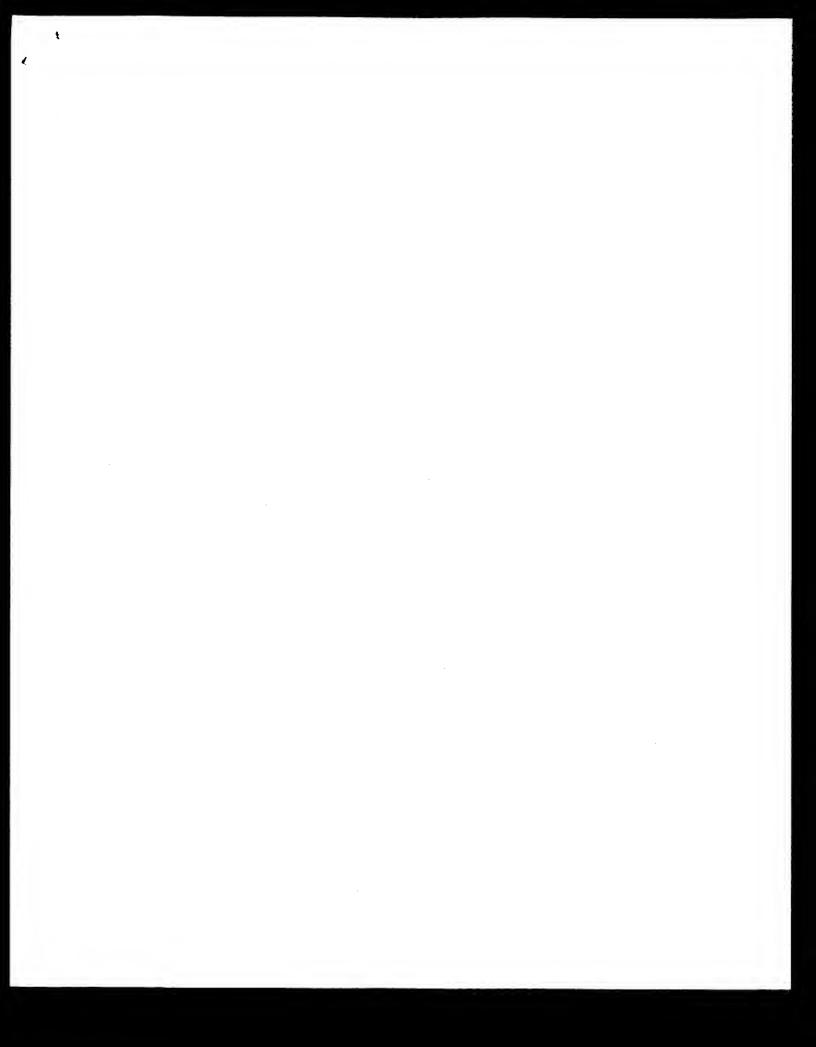
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LENGTH: 14636
                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
4.1%; Score 264.6; DB 4; Length 14636; Best Local Similarity 92.1%; Pred. No. 8.7e-60; Matches 279; Conservative 0; Mismatches 24; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Hendrickson, Eric
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Patent No. 6171857
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 286; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: A No. 6171857el Leucine Zipper, KARP-1 and TITLE OF INVENTION: Methods of Regulating DNA Dependent Protein Kinase Activity FILE REFERENCE: B0877/7017/HK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
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NUMBER OF SEQ ID NOS: 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EARLIER APPLICATION NUMBER: 60/064,557
12354 GCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCCCG 12295
                                                                                                                                                                                                          12474 ATCACGAGGTCAGGAGATCGAGACCATCCCGGCTAAAACGGTGAAACCTCGTCTCTACTA 12415
                                                                                                                                                                                                                                                                                                                       TYPE: DNA
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                                                                                                    12414 AAAATACAAAAATTAGCCGGGCGTAGTGGCGGCGCCTGTAGTCCCAGCTACTTGGGAG 12355
                                                                                                                                                                                                                                              1430 atcacgagatcaggagatcgagaccatcctagccaacatggggaaaccccgtcttacta 1489
                       1550 gctgaggcaggagtggaacccggggaggcgaagcttgtagtgagccgagatcgca 1609
                                                                                                                                    1490 aaaatacaaaaaattagccgggcgtggtggcggcctgtagtcccagctactcgggag 1549
                                                                                                                                                                                                                                                                                                                                               1370 gggctgggcgcggtggctcacgcctgtaatcccagcactttgggaggccgagatgggctt 1429
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/09/173,914
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APPLICANT: Altier
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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STRANDEDNESS: sin"
TOPOLOGY:
8803 AGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGGAGGTGGAGCTTGCTGTG 8862
                   1537 agctactcgggaggctgaggcaggagaatggcgtgaacccgggaggcgaagcttgtagtg 1596
                                                                         1477 cccgtctctactaaaaatacaaaaaattagccgggcgtggtggtggcggcctgtagtccc 1536
                                                                                                                                                         8683 CCGAGGCGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACATGGTGAAAC 8742
                                                                                                                                                                               1417 ccgagatgggcttatcacgagatcaggagatcgagaccatcctagccaacatggggaaac 1476
                                                                                                                                                                                                                                       8623 AAGTAGACTTTCAGGGCCGGGCATGGTGGTCACGCCTGTAATCCCAGCACTTTGGGAGG 8682
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TELEFAX: 202-467-7176
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APPLICATION NUMBER: US 60/031,435
FILING DATE: 20-NOV-1996
ATTORNEY/AGENT INFORMATION:
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CURRENT APPLICATION DATA:
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CITY: Washington
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Adler, Reid G. REGISTRATION NUMBER: 30,988
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                      Match 4.1%;
Local Similarity 90.4%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
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NVENTION: SURVIVIN, A PROTEIN THAT INHIBITS
NVENTION: CELLULAR APOPTOSIS, AND ITS MODULATION
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SEQ ID NO 10
LENGTH: 14796
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CURRENT APPLICATION NUMBER: US/09/630,706
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NAME/KEY: CDS
TON: (5158)...(5275)
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NAME/KEY: CDS
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LOCATION: (119
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8923 aaaaaaaaaa 8933
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Local Similarity 90.4%; Pred. No. 2.3e-59;
hes 281; Conservative 0; Mismatches 30; Indels 0;
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Search completed: November 29, 2001, 09:31:09 Job time: 19485 sec



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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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Maximum DB seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Database :
         55:: 66:: 77:: 77:: 99:: 110:: 115:: 115:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117:: 117::
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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348.2	371.8	373.4	379.8	403.4	427.4	451.8	456	473.6	476.4	606.6	664.4	Score
5.4	5.7	5.8	5.9	6.2	6.6	7.0	7.0	7.3	7.3	9.4	10.2	Query Match
457	525	376	398	407	468	456	481	508	495	657	674	Match Length DB
13	10	10	10	10	13	10	13	10	10	10	10	- B
AQ518451	AI250843	AI832007	AW292092	AI224367	B47140	AI379831	AQ391334	AA825207	AW575965	AW370369	AW978572	ID
AQ518451 HS_5101_A	AI250843 qx10a04.x	AI832007 wj99a02.x	AW292092 UI-H-BI2-	AI224367 qx05f07.x	B47140 HS-1068-B1-	AI379831 te29a09.x	AQ391334 CITBI-E1-	AA825207 oc66e07.s	AW575965 UI-HF-BLO	AW370369 RC1-BT025	AW978572 EST390681	Description

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587 423	693	612	551	368	630	591	435	581	508	997	621	444	405	394	766	514	664	540	630	337	822	675	640	517	440	14771	515	300	315	338	328	
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B48415 AI431303	AV728425	AQ395455	AQ528700	AW193265	AQ628459	AL601822	AQ234503	BF677892	BG944867	BG547647	AV760777	в89781	AI281881	AQ044082	AQ749821	AQ002001	AQ343449	AQ483367	B16472	AI284640	BG249643	AQ111077	AQ380625	AL046409	AQ129641	AQ839854	AQ019249	AI250350	AI434322	AA825205	AW003249	
B48415 RPCII1-1K5. AI431303 ar55a07.x	AV728425 AV728425	E	AQ528700 RPCI-11-3	x172f11.	CITBI-E	DKFZp31	HS_2052	BF677892 602084710	ax56h08	6025754	AV76077	ET-HSP-21	AI281881 qt68h12.x	AQ044082 CIT-HSP-2	AQ749821 HS_5573_A	AQ002001 CIT-HSP-2	AQ343449 RPCI11-12	AQ483367 RPCI-11-2	B16472 342F6.TPB C	AI284640 qu23h09.x	BG249643 602319736	CIT-HSF	AQ380625 RPCI11-16	AL046409 DKFZP434N	AQ129641 HS_2255_B	260L13-C	CIT-HSP	qx04c01.	ti4	oc66e05.	wq64e08.	

## ALIGNMENTS

BASE COUNT ORIGIN	FEATURES Source		TITLE JOURNAL COMMENT	REFERENCE	ACCESSION VERSION KEYWORDS SOURCE ORGANISM	RESULT 1 AW978572/c LOCUS DEFINITION
/organism="Homo sapiens" /dL_xref="faxon:9606" /clone_lib="MAGE resequences, MAGP" /note="Vector: pBluescriptSKm" 185 a 178 c 191 g 120 t	<pre>Seq primer: Forward. Location/Qualifiers 1674</pre>	The Institute for Genomic Research 9712 Medical Center Dr., Rockville, MD 20850, USA Tel: 301 838 3528 Fax: 301 838 0208 Email: johnq@tigr.org	ASSessment of gene expression patterns in a model of colon tumor metastasis using a 19,200 element cDNA microarray Unpublished (2000)  Contact: John Quackenbush	Eukaryota; Metazoa; Chordata; Cranlata; Vertebrata; Eucelescomi; Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.  1 (bases 1 to 674)  2 (bases 1 to 674)  3 (bases 1 to 674)  4 (bases 1 to 674)  4 (bases 1 to 674)  5 (bases 1 to 674)  6 (bases 1 to 674)  1 (bases 1 to 674)  2 (bases 1 to 674)  2 (bases 1 to 674)  2 (bases 1 to 674)  3 (bases 1 to 674)  4 (bases 1 to 674)  4 (bases 1 to 674)  4 (bases 1 to 674)  1 (bases 1 to 674)  1 (bases 1 to 674)	AW978572 AW978572.1 GI:8169840 EST. human. Homo sapiens	AW978572 674 bp mRNA EST 02-JUN-2000 EST390681 MAGE resequences, MAGP Homo sapiens cDNA, mRNA sequence.

Query Match

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Matches 668; Conservative
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      Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                      Unpublished (1999)
                                                                                                                                                                            HCGP http://www.ludwig.org.br/ORESTES.
The FAPESP/LICR Human Cancer Genome Project
                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                               AW370369 657 bp mrNA EST 04-FEB-_{2000} RC1-BT0255-181099-012-f04 BT0255 Homo sapiens cDNA, mrNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                         AW370369.1 GI:6875023
                                                                                                                                                                                                                                                  (bases 1 to 657)
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6289 tgacctcacagtactggttaattaaactttattgctc 6325
                                                                                   6229 ggcctgtgcttctgcttattcagtccttcagctcacggaagggatgctagtccgtgaagg 6288
                                                                                                                                                                                                      6049 agtggttcggtttaagagatggcattagagggagcccagtctggatgtggacttggatgc 6108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5929 ctcatgctgatcttctagatgccactcccaaaatccccttcatacccaccaggatgtgtgc 5988
                                                      117 GGCCTGTGCTTCTGCTTATTCAGTCCTTCAGCTCACGGAAGGGATGCTAGTCCGTGAAGT
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                                                                                                                                                                         177 ATGTACACCAGAGCCTCAGTGAGCCCATCTGCACAGTGGGGAGCATGGAGGGATGGGTTT 118
                                                                                                                                                                                                                                                                                         297 AGTGGTTCGGTTTAAGAGATGGCATTAGAGGGAGCCCAGTCTGGATGTGGACTTGGATGC
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Tel: +55-11-2704922
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note="organ: breast; Vector: pucl8; Site_1: SmaI; Site_2: SmaI; A mini-1lbrary was made by cloning products derived from ORESTES PCR (U.S. Letters Fatent application No. 196.,716. Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions. The puck of the pu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              oligonucleotide that was used to prime the synthesis of first strand CDNA and therefore this may represent a bonafide poly A tail. Tissue Procurement: Louis M. Staudt, M.D., Ph.D. CDNA Library Preparation: M.B. Soares Lab CDNA Library Arrayed by: M.B. Soares Lab DNA Sequencing by: M.B. Soares Lab DNA Sequencing by: M.B. Soares Lab Clone distribution: MGC clone distribution information can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                UI-HF-BL0-acn-h-03-0-UI.s1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE: 3059932\ 3', mRNA sequence.
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National Institutes of Health, Mammalian Gene Collection (MGC)
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www-bio.llnl.gov/bbrp/image/image.html
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AW575965.1 GI:7247420
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/note="Vector: pT713-Pa; Site_1: Not; Site_2: Eco RI;
/note="Vector: pT713-Pa; Not; Site_2: Eco RI;
/note-"Vector: pT713-Pa; Site_1: Not; Site_2: Eco RI;
/note-"Vector from size fractionated cytoplasmic mRNA
(1.5-2.5kb) Directionally cloned Cells provided by Louis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (1.5-2.5kb). Directionally Gloves. Color for the M. Staudt, Ph.D. Library preparation by Maria de Fatima
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/tissue_type="lymph"
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99.4%;
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Pred. No. 3.8
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3.8e-48;

5.765 3; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          195 AGTGCTGAGCAAGCAATGTACACCGGAGCCTCAGTGAGCCCATCTGCACAGTGGGGAGCA 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/lmage/image.html
Insert Length: 1099 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 449.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bonaldo, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: cgapbs-remail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D., David Allman,
Ph.D., Gerald Marti, M.D.

CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
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Washington University Genome Sequencing Center Clone distribution: NCI-GAP clone distribution information can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (bases 1 to 508)
                                                                                                                                                     constructed by Bento Soares and M. Fatima Bonaldo. "
129 c 132 g 122 t
                                                               (Pharmacia), digested with Not I and cloned into and Eco RI sites of the modified pT7T3 vector. Li went through one round of normalization, and was
                                                                                                                                                                                                                                                                                                                                                                                                                     /db_xref="taxon:9606"
/clone="IMAGE:1354692"
                                                                                                                                                                                                                                                                                                                                                 /tissue_type="germinal center B cell"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                 /clone_lib="NCI_CGAP_GCB1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                   Double-stranded cDNA was ligated to Eco RI adaptors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    508 bp
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5974 caccaggatgtgtgcccagccaggcctccagcacccccagtgcagctcgtgattggaaac 6033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6214 tggagggatgggtttggoctgtgcttctgcttattcagctccttcagctcacggaagggat 6273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6094 tgtggacttgggatgccctgtgggtatcagttctgctgacactttggcccgaaatagatcc 6153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6034 tcaccatcggcagtggttcggtttaagagatggcattagagggagcccagtctgga 6093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5914 ttctcctctgtgcccctcatgctgatcttctagatgccactcccaaatccccttcatacc 5973
                                                                                       source
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              448 TTCTTCTCTGTGCCCCTCATGCTGATCTTCTAGATGCCACTCCCAAATCCCCTTCATACC 389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             148 TGGAGGGATGGGTTTGGCCTGTGCTTCTGCTTATTCAGTCCTTCAGCTCACGGAAGGGAT 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              208 AGTGCTGAGCAAGCAATGTACACCGGAGCCTCAGTGAGCCCATCTGCACAGTGGGGAAGCA 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              268 TGTGGACTTGGATGCCCTGTGGGTATCAGTTCTGCTGACACTTTGGCCCGAAATAGATCC 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             388 CACCAGGATGTGTGCCCAGCCAGGCCTCCAGCACCCCCAGTGCAGCTCGTGATTGGAAAC 329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity 99.2%;
                                                                                                                           Seq primer: Ml3 Reverse Class: BAC ends.
                                                                                                                                                                                                                                                                                                              Contact: Shaying Zhao, William Nierman, Mark Adams
Department of Bukaryotic Genomics
The Institute for Genomic Research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 481)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITBI-E1-2554019.TR CITBI-E1 Homo sapiens genomic clone 2554019,
                                                                                                                                                                                                            Clones are available from Research Genetics (info@resgen.com). BAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Zhao, S., Adams, M.D., Nierman, W., Malek, J., Shizuya, H., Simon, M. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AQ391334
                                                                                                                                                                   http://www.t1gr.org/tdb/humgen/bac_end_search/bac_end_search.html
                                                                                                                                                                                       end search page:
                                                                                                                                                                                                                                                                                                                                                                             Unpublished (1997)
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301 838 0208
                                                                                                                                                                                                                                                                                        Medical Center Dr., Rockville, MD 20850
                                                                                                                                                                                                                                                                                                                                                                                                               BAC End Sequences from CalTech Libraries for Sequence-Ready
                                                                                                                                                                                                                                  hbe@tigr.org
                                                                                     1. .481
/clone_lib="CITBI-E1"
                                          /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                    Location/Qualifiers
                        /clone="2554019"
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                                                                                                       Insert Length: 746 Std Erro
Seq primer: -40UP from Gibco
                                                                                                                                                                                                                             Unpublished (1997)
                                                                                                                                                                                                                                                        Tumor Gene Index
                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
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                                                                                  High quality sequence stop: 455.
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  /db_xref="taxon:9606"
                                                            location/Qualifiers
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98.7%;
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3865 cagctaattttttattttttgtagagacagagtctcattatgttgccgaggctggtcttg 3924
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4225 ttgcagtggggcgagggtgcagggtcagaggggccagaaggggccccagccatccta 4284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4165 agaatactcagctttaacccaaggtgttgacaggttggaaacagtggctaaatttgggga 4224
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 TTGCAGTGGGGCGAGGCAGGGTGCAGGGTCAGAGGGGCCCAGAAGGGGCCCCAGCCATCCTA 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 AGAATACTCAGCTTTAACCCAAGGTGTTGACAGGTTGGAAACAGTGGCTAAATTTGGGGA 122
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 GATGGAGCCACAAGTACCAGTGCCAAGGCTCTTGGTCTGGAATTC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATCTTGTTTTTAAAACGAAGATTTAAAAAATTACGGCAATGGCAGAGATGGAGGCCCCAAG 182
                                                                                                                                                                                                                                                            Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
This clone is available royalty-free through LLNL; contact the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 456)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       te29a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                        National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap
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                                                                                                                                                                                                                            IMAGE Consortium (info@image.llnl.gov) for further information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /cell_type="sperm"
/cell_type="sperm"
/cell_type="sperm"
/note="Yector: pBeloBAC11; Site_1: EcoRI; Site_2: EcoRI;
/calTech Human BAC Library D"
calTech Human BAC 115 t
/organism="Homo sapiens"
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B47140/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5879 ccagtttcccctgctggctgcaagctgtgggttctttctcctctgtgcccctcatgctga 5938
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6299 gtactggttaattaaactttattgctcactgtcca 6333
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               276 TTTAAGAGATGCCATTAGAGGGAGCCCAGTCTGGATGTGGACTTGGATGCCCTGTGGGTA 217
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 468)
Mahairas,G.G., Zackrone,K.D., Smith,T., Tipton,S., Schmidt,S., Traicoff,R., Abajian,C., Blanchard,A., West,A. and Hood,L.E. Construction of a Characterized Clone Resource for Genomic Sequencing: Generation and Preliminary Analysis of 20,000 Sequence
                                                                                                                                                                                                                                                                                                                                                           B47140 468 bp DNA GSS 21-OCT-1997
HS-1068-B1-B10-MR.abi CIT Human Genomic Sperm Library C Homo
sapiens genomic clone Plate=CT 278 Col-19 Row-D, DNA sequence.
                                                                                                                                                                                                                      HOMO Sapiens
                                                                                                                                                                                                                                                                                                          B47140.1 GI:2551974
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone_lib="Soares_NFL_T_GBC_S1"
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Pred. No. 3.4e-45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        125 g
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

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                                                    VERSION
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       ORGANISM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1560 gagaatggcgtgaacccgg-gaggcgaagcttg 1591
                                                                                                                                                                                                                                                                                                           1500 aaattagccgggcgtggtggcggacgcctgtagtcccagctactcgggaggctgaggcag 1559
                                                                                                                                                                                                                                                                                                                                                                                                                                                     1380 cggtggctcacgcctgtaatccCagcactttgggaggccgagatgggcttatcacgagat 1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1320 ccttagtgtaatgtggtaaaagcatatccggatatttaaaatgCcatttagggCtgggCg 1379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1200 atcacttcaagctctgctttttgggaactttgtggaatttcttttttcccccaaatatttt 1259
                                                                                                                                                                                                                                                                                                                                                                                              1440 caggagatcgagaccatCctagCcaacatggggaaaccccgtctctactaaaaaatacaaa 1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  source
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       288 CCTTAGTGTAATGTGGTAAAAGCATATCCGGATATTTAAAATGCCATTTAGGGCTGGGCG 229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             49 GAGAATGGCGTGAACCCGGCGAGGCGAAGCTTG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
                                                                                                                                                                                                                                                                                                                                                                                                                                   CGGTGG-TCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGATGGGCCTTATCACGAGAT 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Mahairas GG, Zackrone KD, Hood L
University of Washington
Seattle, WA 98195, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unpublished (1997)
Homo sapiens
                                                                                                          qx05f07.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2000485 3',
                                                                                                                              AI224367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   High quality sequence stop: 468.
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                                                        AI224367.1 GI:3807080
                                                                                         mRNA sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: kzackron@u.washington.edu
                       naman.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (206) 616-8744
(206) 685-7301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note="Organ: sperm; Vector: pBeloBAC11; BAC Clones in
E-Coli DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /clone="Plate=CT 278 Col=19 Row=D"
/clone_lib="CIT Human Genomic Sperm Library C"
/sex="M"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /db_xref="taxon:9606"
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99.3%;
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                                                                                                                              407 bp
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Pred. No. 2.8e-42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    102 g
                                                                                                                                mRNA
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REFERENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6169 atgtacaccggagcctcagtgagcccatctgcacagtggggagcatggagggatgggttt 6228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5989 ccagccaggcctccagcacccccagtgcagctcgtgattggaaactcaccatcggcaggc 6048
                                                                                                                                                                                                                                                                                                                 6289 tgacctcacagtactggttaattaaactttattgctcactgtcca 6333
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                                                                                                                                                                                                                                                                                                                                                                                     107 GGCCTGTGCTTCTGCTTATTCAGTCCTTCAGCTCACGGAAGGGATGCTAGTCCGTGAAGG 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          167 ATGTACACCGGAGCCTCAGTGAGCCCATCTGCACAGTGGGGAGCATGGAGGGATGGGTTT 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  347 CCAGCCAGGCCTCCAGCACCCCCAGTGCAGCTCGTGATTGGAAACTCACCATCGGCAGGC 288
                                                                                                                                                                                                                                                                                              47 TGACCTCACAGTACTGGTTAATTAAACTTTATTGCTCACTGTCAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Loca1
                                                                                                                              UI-H-BI2-agx-a-12-0-UI.sl NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2725559 3', mRNA sequence.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 407)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                       AW292092.1 GI:6698728
                                                                                                                                                                              AW292092
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: cgapbs-r@mail.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              h 6.2%; Score 403.4; DB 10; Length 407; Similarity 99.8%; Pred. No. 2.2e-39;
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a 109 c 107 g 91 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone="IMAGE:2000485"
/clone_lib="NCI_CGAP_Lym12"
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                                                                                                   Query Match 5.9%; Score 379.8; DB 10; Length Best Local Similarity 99.5%; Pred. No. 1.5e-36; Conservative 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
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National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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                                                                          TAG_LIB=NCI_CGAP_Lu5
TAG_TISSUE~1ung
TAG_SEO=CAAC"
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/Glone_1ib="NCI_CGAP_SUb4"
/Glone_1ib="NCI_CGAP_SUb4"
/Glone_1ib="NCI_CGAP_SUb4"
/Inb_nost="DB10B (Life Technologies)"
/Inb_nost="DB10B (Life Technologies)"
/Inbearvector: pT7T3D-Pac (Pharmacla) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; The polylinker; Site_2: Not I; Site_2: Eco RI; The polylinker; Site_2: Not I; Site_2: Eco RI; The polylinker; Site_2: Not I; Site_2: Eco RI; Site_2: Not I; Site_2
                                                                                                                                                                                                                                                                                                         ) Subtraction was performed as previously described [Bonaldo, Lennon & Soares (1996): Normalization and Subtraction: Two Approaches To Facilitate Gene Discovery. Genome Research 6, 791-806.]
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           374;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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AI832007.1 GI:5452678
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html Insert Length: 1100 Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Life Technologies catalog #: 11547-015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: cgapbs-r@mail.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Robert Strausberg, Ph.D
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                             Similarity
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           Conservative
                                                                                                                                   /note="Organ: lymph node; Vector: pCMV-SPORT6; Site_1:
Sall; Site_2: Not1; Cloned unidirectionally. Primer:
Oligo dT. Average insert size 1.25 kb. Life Technologies catalog #: 11547-015"
a 105 c 97 g 82 t
                                                                                                                                                                                                                                                                                                       /clone="IMAGE: 2410922"
/clone_lib="NCI_CGAP_Lym12"
                                                                                                                                                                                                                                                                                                                                                   /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                             /lab_host="DH10B"
                                                                                                                                                                                                                                                                                  /tissue_type="lymphoma, follicular mixed small and large
                           5.8%;
99.7%;
           0; Mismatches
                           Score 373.4; DB 10; Length 376; Pred. No. 8.9e-36;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Robert Strausberg, Ph.D. Email: cgapbs -@mail.nih.gov unknown library type Insert Length, 1149 Std Error:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    qx10a04.xl NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2000910 3',
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1 (bases 1 to 525)
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                                                                                                                                                   /note-"Organ: lymph node; Vector: pCMV-SPORT6; Site_1: Sall; Site_2: Not1; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.25 kb. Life Technologies catalog #: 11547-015"
                                                                                                                                                                                                                                                                                  /tissue_type="lymphoma, follicular mixed small and large
                                                                                                                                                                                                                                                                                                    /clone="IMAGE: 2000910"
/clone_lib="NCI_CGAP_Lyml2"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  257 GAGGGAGCCCAGTCTGGATGTGGACTTGGATGCCCTGTGGGTATCAGTTCTGCTGACACT 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       197 TTGGCCCGAAATAGATCCAGTGCTGAGCAAGCAATGTACACCGGAGCCTCAGTGAGCCCA 138
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                                                                                                                                                                                                                                                                               Email: jwallace@u.washington.edu
Clones are derived from the human BAC library RPCI-11. For BAC
Clones are derived from the human BAC library RPCI-11. For BAC
library availability, please contact Pieter de Jong
(pieter@dejong.med.buffalo.edu). Clones may be purchased from
BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm
or from Resear h Genetics (info@resgen.com). BAC end Web Server:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AQ518451 457 bp DNA GSS 05-MAY-1999 HS_5101_A2_E10_SP6E RPCI-11 Human Male BAC Library Homo sapiens genomic clone Plate=677 Col=20 Row=I, DNA sequence.
                                                                                                                                                                    High quality sequence stop: 457
                                                                                                                                                                                                                   Seq primer: SP6
                                                                                                                                                                                                                                        http://www.htsc.washington.edu
Plate: 677 row: I column: 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 457)
Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,
Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Mahairas GG, Wallace JC, Hood L
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                                                                                                                                                                                              BAC ends
                                               /db_xref="taxon:9606"
/clone="Plate=677 Col=20 Row=I"
                          /clone_lib="RPCI-11 Human Male BAC Library"
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AW003249/c
FEATURES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181 GATGCCCTTCTCCCAGCTGCCCGCCGTGTGGCAGCTCTACCCCAGGAGGAAGTACCGAGC 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301 TGTGAAAGCGACAGGTGGCCCCTGGTGACTGGCGTGG-CCTCTCTCTTCTGTGCCCCCTGC 359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241 AGCGGATTCCAGTTTCTGGGAAATAGCAGACCATGGCCAGGCAAGTGTGTGGTGGTTCTA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 CATCACAGTGCACTTGTGGCAGATGGCAGTGCATACCCGGGGAGCTACTCCTCCCGGCCA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 GGCAGGGAACCCTATCCATGATTTGCCGCCTCTTTTCTGGTCCCTTCAGTATGAACCCAG 120
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                       Insert Length: 384 Std Erro
Seg primer: -40UP from Gibco.
                                                                                                                 cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                                                                                                                                                                                                   Unpublished (1997)
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                                                        Bonaldo,
                                                                                                                                                                                                                                                                                                                                      Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
                                                                                                                                                                                                                                                                                                                                                                    Email: cgapbs-r@mail.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCI-CGAP
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                                                                                                                                                                                                                                                                       cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
                                                                                                                                                                                                                                                                                                           Emmert-Buck, M.D., Ph.D.
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                                                                                                                                                                                                                                                   Ph.D
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             http://www.ncbi.nlm.nih.gov/ncicgap
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Pred. No. 8.3e-33;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                320;
                                Contact: Robert Strausberg, Ph.D.
Email: Cappbs r@mail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D., David Allman, Ph.D., Gerald Marti, M.D.
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
                                                                                                                                                                      Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         oc66e05.sl NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354688 3',
                                                                                                                                                                                                                              NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap
                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                  National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                    AA825205.1 GI:2898502
                                                                                                                                                                                                                                                                                                                                                                                                                                             mRNA sequence.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
                                                                                                                                                                                                                                                                 (bases 1 to 338)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
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/clone_lib="NCI_CGAP_GC6"
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/db_xref="taxon:9606"
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SOURCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6144 aaatagatccagtgctgagcaatgtacaccggagcctcagtgagcccatctgcaca 6203
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                                                                                                                                                                                                                                                                                                                                                                      38 TCACTGTCAA 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                        308;
                                                                                                                                                                                           t141d01.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2133025 3',
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                mRNA sequence.
                                                        Homo sapiens
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                                                                                      numan
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Insert Length: 1077 Std Error: 0.00
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       j. Double stranded CDNA was ligated to Eco RI adaptors (Pharmacia), digested with NOt I and cloned into the N and Eco RI sites of the modified pT/T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo." a 91 c 69 g 98 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note-"Vector: pT7T3D-Pac (Pharmacia) with a modified pOlylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+, IgD-), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /tissue_type="germinal center B cell"
/lab_host="DH10B"
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/db_xref="taxon:9606"
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                                                                                                                                                                                                                                     315 bp
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                                                                                                                                          6316 tttattgctcactgtc 6331
                                                                                                                                                                                                                                   6196 tctgcacagtggggagcatggagggatgggtttggcctgtgcttctgcttattcagtcct 6255
                                                                                                                                                                                                                                                                                                                                                                                                196 TTGGCCCGAAATAGATCCAGTGCTGAGCAAGCAATGTACACCGGAGCCTCAGTGAGCCCA 137
                                                                                                                                                                                                                                                                                                     136 TCTGCACAGTGGGAGCATGGAGGGATGGGTTTGGCCTGTGCTTCTGCTTATTCAGTCCT 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        256 GAGGGAGCCCAGTCTGGATGTGGACTTGGATGCCCTGTGGGTATCAGTTCTGCTGACACT 197
                                                                                                                                                                                                          4.7%; Score 304; DB 10; Length 315; Local Similarity 99.7%; Pred. No. 1.9e-27; les 315; Conservative 0; Mismatches 0; Indels
                                                                                                                 16 TTTATTGCTCACTGTC 1
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Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Email: cgapbs-r@mail.nih.gov
Email: cgapbs-r@mail.nih.gov
DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G. E. Consortium/LLNL at:

www-bio.llni.gov/bbrp/image/hmage.html
Insert Length: 1751 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 308.
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NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note="Organ: lymph node; Vector: pCMV-SPORT6; Site_1: SalI; Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.25 kb. Life Technologies catalog #: 11547-015"

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/clone="IMAGE:2133025"
/clone_1ib-"NCI_CGAp-Lym12"
/tisue_type="1ymphoma, follicular mixed small and large
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